Teledata one

The Italian Touch !

The only One you need.

User and Installation Manual

Information ownership

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Declaration of conformity

This equipment was designed according to the quality, reliability and performance criteria adopted by Teledata.

Equipment must be professionally installed according to current regulations.

The equipment meets the following directives and standards:

- EMC Directive (EMC) **2004/108/EC**
- Low Voltage Directive (LVD) **2006/95/EC**
- EN 54-2
- EN 54-4 (A2:2006)

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1. Introduction to this manual

1.1 Obligations to this manual

Warning: this manual is an integral part of the equipment and must be kept for its entire working life. The manual must be enclosed with the equipment in the event of transfer to third parties.

The manual must be consulted for all those situations tied to the equipment's working life from its receipt until its disposal.

It must be kept in a clean place accessible to operators and kept in good conditions.

1.2 Manual data

Equipment: Teledata One

Title: User and Installation Manual

Code or edition: v. 1.0 ITA

Print month and year: MAR 2014

Manual type: original instructions

1.3 Warnings for manual addressees

Graphic concepts adopted in the text are illustrated below.

Warning: operations to be carefully performed or important information.

Note: important information, highlighted after the text they refer to.

Suggestions: practical information for good function operations.

2. Safeties and warranties

2.1 Safety rules

The information in this manual section aim to ensure that the device is correctly installed and handled. It is assumed that anyone who has to do with the device is familiar with the content of this chapter.

2.2 Intended use

The equipment must only be installed and used as described in this manual and for the purposes described in the advertising material distributed by Teledata S.r.l. It can only be connected to equipment, components and devices manufactured by third parties as recommended and permitted in this manual or by Teledata S.r.l. directly.

The equipment was designed, manufactured and tested to meet the stated safety standards. If, during the design of the systems in which it is installed, installation and use the instructions in this manual are followed, the equipment is not harmful to people or property.

2.3 Warranty restrictions

Teledata is not liable for direct or indirect damages to people or property due to equipment use in conditions other than those intended.

Qualified personnel must install this equipment strictly following the instructions in this manual and according to local laws, standards and safety regulations in effect.

This product is guaranteed against material and factory defects for **12 months from inspection date.** The warranty does not cover defects due to:

- Improper use and neglect.
- Damages due to exposure to the elements.
- Vandalism.
- Material wear.

Teledata s.r.l. reserves the right to repair or replace products deemed defective at its discretion. The warranty is null and void when faults are due to improper use or operating procedures not contemplated in this user manual. For further information on warranty conditions, please refer to the purchase terms and warranty instructions available at www.teledata-i.com.

2.4 Technical support

This manual was drafted with care and is intended for qualified personnel. For any questions or special technical requests, please contact our personnel.

Please write or call to contact personnel able to answer your questions and provide assistance.

Service email: info@teledata-i.com
Service phone number: +39 0227201352
Service fax number: +39 022593704

3. Product identification

3.1 Manufacturer's identification data

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Fax: +39 02 25 93 704

E-mail: info@teledata-i.com

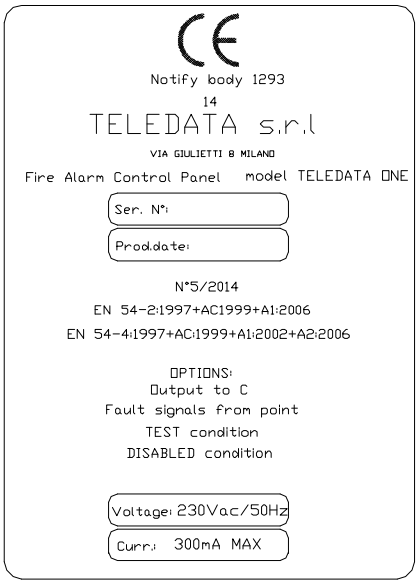
3.2 Packaging content

The packaging contains the following items:

Description	Quantity
Teledata One panel	1
Wire kit	1
Resistance, diode and jumpers kit	1
Installation and user manual (this manual)	1

3.3 Identify the model and the serial number

The identification sticker inside the control panel must not be removed under any circumstance. Please see plate information for service calls, maintenance or accessories.



3.4 Standards compliance

- **EN 54-2**: Fire detection and fire alarm systems - Control and indicating equipment.
- **EN 54-4**: Fire detection and fire alarm systems - Power supply equipment (integrated in the control panel).
- **Product type**: Fire detection and fire alarm systems for buildings.
- **Intended use**: Fire safety.

Main characteristic	Relevant part of standard
Performance in case of fire	4, 5, 7
Response delay (response time in case of fire)	7.1, 7.7
Reliability	4, 5, 6, 7, 8, 9, 10, 12, 13, 14
Durability of reliability: Resistance to heat	15.4
Durability of reliability: Resistance to vibrations	15.6, 15.7, 15.15
Durability of reliability: Electrical stability	Da 15.8 a 15.13
Durability of reliability: Resistance to humidity	15.5, 15.14

4. Equipment management

4.1 Transportation

Once the equipment is carefully packaged and boxed, typical precautions must be taken during transport meaning the box must be positioned and secured to avoid tipping or falling that could damage equipment. Temperature limits must also be observed.

4.2 Environmental conditions

Observe temperature limits:

- -10°/ +55℃ for storage and transport.
- 0°/ +55℃ for operations.

4.3 Unpacking

Upon receiving the equipment, carefully unpack, being careful to dispose waste according to current waste disposal regulations.

4.4 Replacement

To replace obsolete equipment, disconnect it and connect the new device according to the relevant installation diagrams.

Dispose of the old equipment according to current waste disposal regulations.

4.5 Disposal

Avoid destruction by incineration and disposal in waterways. The product must be safely disposed.

Before disposal, batteries must be removed from all products containing batteries being careful to avoid short circuits. Observe current regulations for battery disposal.

5. Introduction to Teledata One

5.1 General features

Teledata One is a microprocessor-programmable fire detection control panel. This control panel uses an analogue addressed system and an autonomous management of indications and warning procedures.

The control panel is able to manage the fire detection through 1 analogue addressed lines, expandable up to 9.

Every loop can control up to 240 IN/OUT detectors and modules.

The system is provided with a 32-bit microprocessor with RAM, flash memory and E2prom memory for the non-volatile storage of the configuration data.

The control panel can be programmed using the touch screen or by importing programming data from a USB key.

Like all Teledata products, Teledata One can be managed through the integrated supervisory and control software.

5.2 Installation precautions

The electronic boards are provided with semiconductors that are sensitive to electrostatic charges. For this reason the boards should be handled by their edges and their electronic components should not be touched.

Carry out a good grounding in order to reduce the damageability and noise sensibility.

During the phase of designing the system, required autonomy should be taken into consideration in order to scale the batteries to be utilized.

Disconnect the batteries, the AC power and any power supply before inserting or removing an electronic board and before carrying out any maintenance work on the control panel (except for the loading of a new FW version).

Peripheral devices like detectors, modules, sounders etc. that are not compatible with the control panel can cause an improper operation of the control panel or even damage it.

It is therefore necessary to use materials compatible with the Teledata control panels.

Teledata One control panel must be used with n°2 12 V - 7.2Ah or 17Ah batteries

5.3 Technical specifications

5.3.1 HARDWARE features

- 32 bit microprocessor addressable control panel.
- 1 loop addressable with digital protocol configurable as open or close.
- Expandable up to 9 loops.
- 240 addressable devices each loop.

- Graphic touch screen display (480x272 TFT 4.3”).
- Loop short circuit protection.
- 14 front LEDs.
- 1 supervised output for siren or dialer (24Vdc - 1A).
- 1 general form C output 1A @ 30Vdc/120 Vac.
- 1 general open collector output.
- 1 RS 485 line for peripherals.
- 1 RS 232/micro USB for programming or monitoring station.
- Colored side led.
- 56 area led. (OPTIONAL board).
- Battery capacity: 2 x 7.2Ah or 2 x 17Ah each with EN54-4 charger management.
- Supervised AUX power supply output 24 Vdc @ 500mA with shortcut protection.
- Dimensions: 410x410x120 mm
- Power Supply: 230V AC

5.3.2 Software features

- Up to 240 addressable device for loop.
- Splitting up to 192 detection areas.
- 192 logical functions.
- Archival more than 1000 events.
- Analog loops auto programming.
- Analog loops auto addressing.
- Devices Mapping.
- Connection with other control panels using a fault tolerant network.
- Multiple language management.
- Fully customizable with personal logo, color and multicolored side LEDs.
- Management of different types of analog detectors and modules:
    - Thermal, optical and mixed detectors
    - Input Modules
    - Output Modules
    - Addressed call points
    - Addressable sirens
    - Wireless translator

5.4 Technical data

5.4.1 Datum plate

Primary voltage	230 Vac / 50 Hz
Primary absorption	300mA ~
230V~ fuse	F4Ah

5.4.2 Electrical features

Minimum operating voltage	21.6 V
Standby batteries	n°2 (12Vdc/17Ah or 12Vdc/7.2Ah)
External loads available current	500mA
Standby absorption	300 mA – 12V
Monitored sounder line	Max. 500mA – 27.6V DC
Fault relays	Max. 1A - 30V DC/120V AC

5.4.3 Functional features

Operating keyboard	Touch screen
Optical messages	Led
Acoustic messages	Buzzer
Visualization of the events	480x272 TFT 4.3”
Serial output for PC	N°1 – RS232
Event log	Max. 1000
Working mode	Attended/Unattended
Programming/Management hardware key	Multilevel password
Number of analogue lines	1 loop exp. To 9 loops
Exclusion of the analogue line	Single – multiple
I/O Modules / Detectors for each line	Max. 240
Programming type	Manual or by PC
Configuration of the analogue line	192 software zones
Analogue lines connection	Open or closed loop
Length of the detector lines	Max. 5000m
Type of cable	Shielded

5.4.4 Mechanical features

Protection level	IP30
Cabinet	Iron
Dimensions (WxLxD)	410 x 410 x 120 mm
Weight (without batteries)	6 Kg
Painting	Epoxy resin
Color	Black, white
Conduit holes	4 x 25 mm

5.4.5 Environmental features

Storage temperature	(-40 ÷ +70)℃
Operating temperature	(+5 ÷ +40)℃
Operating humidity (relative)	90%

6. Hardware Configuration of the Control Panel

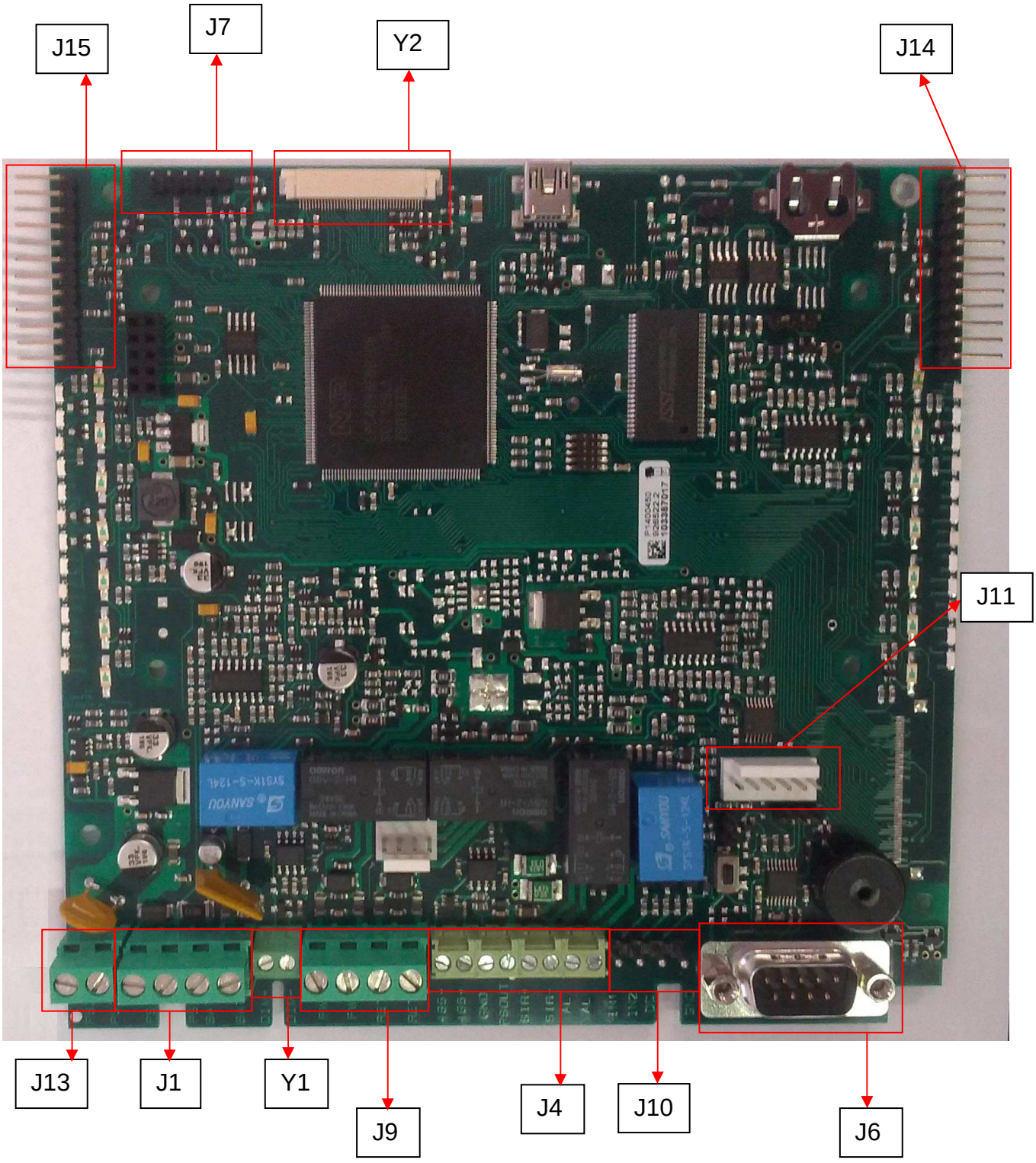
6.1 Control Panel Equipment

When fully equipped the control panel can include:

- 1 main logic board (TD571/B)
- 4 loop expansion logic boards (TD574/A)
- 1 synoptic led (TD580A)
- 1 PT-LAN network card (for LAN or WAN network connection)
- 1 OLYNET card (for panel network connection)
- 2 batteries (max 12V @ 18Ah)

7. Layout and connections

7.1 Logic board (TD571/B) layout



The following connectors are available:

- **Connectors J15 and J14:** connection of loop expansion boards
- **Connector J7**: OLYNET card connections
- **Connector Y2**: touch screen tactile connection
- **Connector J11**: PT-LAN card connections
- **Connector J13:** AL2 power supply
- **Connector J1**: AL1 power supply and batteries
- **Connector Y1**: DIM power supply control
- **Connector J9**: fire delivery and return loop
- **Connector J4:** RS-485 line, AUX output, monitor outputs type C, G, E, and fault output
- **Connector J10:** for logical in/out
- **Connector J6**: for RS-232 connection.

Note: J13, J1, Y1, J14,J15 are connectors with predefined wiring and should be connected to elements that are already installed in the control panel. These connectors should be disconnected and reconnected only in case boards have to be replaced or added.

The respective wiring of the connectors J9, J4, J10, J6, J11, J7 depends on the equipment configuration in which the control panel is connected.

Therefore the respective lug functions of the mentioned connectors will be specified hereunder.

Connector J13

PIN no.	name	FUNCTIONALITY
1	+27.5 Vdc	+ Vdc AL2 INPUT
2	GND	AL2 negative power

Connector J1

PIN no.	name	FUNCTIONALITY
1	+27.5 Vdc	+ Vdc AL1 INPUT
2	GND	AL1 negative power
3	Batt -	Batteries -
4	Batt +	Batteries +

Connector Y1

PIN no.	name	FUNCTIONALITY
1	Y1+	DIM control + AL1 power
2	Y1-	DIM control - AL1 power

Connector J9

PIN no.	name	FUNCTIONALITY
1	L+ send	Loop + Send
2	L- send	Loop - Send
3	L+ ret	Loop + return
4	L- ret	Loop - return

Connector J4

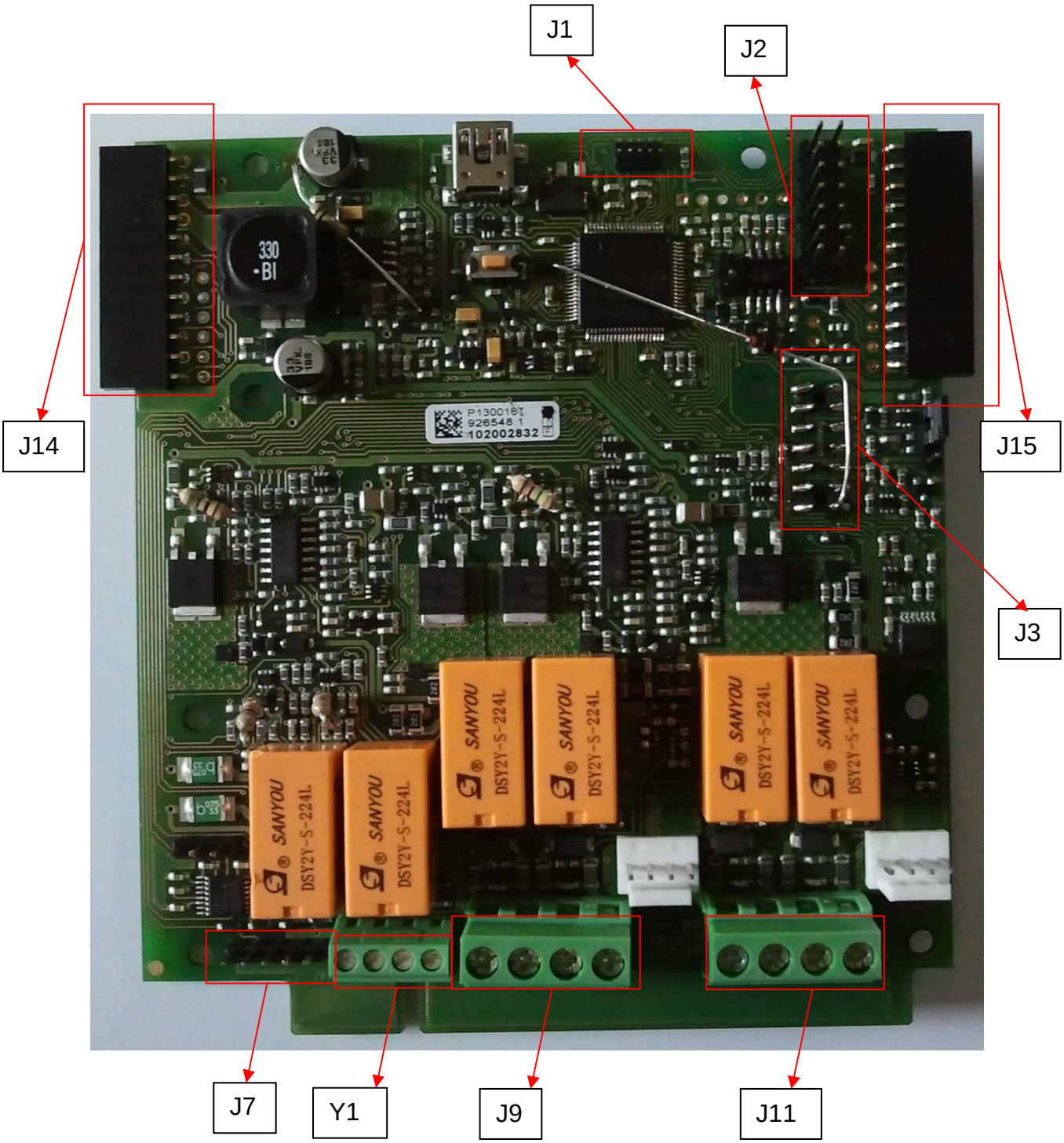
PIN no.	name	FUNCTIONALITY
1	RS-485 L+	RS-485 line +
2	RS-485 L-	RS-485 line -
3	GND	Ground

PIN no.	name	FUNCTIONALITY
4	+V aux	+Vdc AUX output Max. 500mA)
5	+	+ supervised output
6	-	- supervised output
7	C	Fault output
8	NC	Fault output

Connector J10

PIN no.	name	FUNCTIONALITY
1	IN1	Digital input 1
2	IN2	Digital input 2
3	OC1	Open collector 1
4	GND	Ground

7.2 Logic board (TD574/A) layout



The following connectors are available:

- **Connectors J15 and J14:** connection to main card
- **Connectors J2 and J3:** EXP connections
- **Connector J7**: serial port for FW upgrade

- **Connector Y1:** monitored OUT 1 and OUT 2
- **Connector J9**: connection to loop 1
- **Connector J11**: connection to loop 2

Therefore the respective lug functions of the mentioned connectors will be specified hereunder.

Connector Y1

PIN no.	name	FUNCTIONALITY
1	+ OUT1	+ monitor output 1
2	- OUT1	- monitor output 1
3	- OUT2	- monitor output 2
4	+ OUT2	+ monitor output 2

Connector J9

PIN no.	name	FUNCTIONALITY
1	L1+ send	Loop 1 + Send
2	L1- send	Loop 1 - Send
3	L1+ ret	Loop 1 + return
4	L1- ret	Loop 1 - return

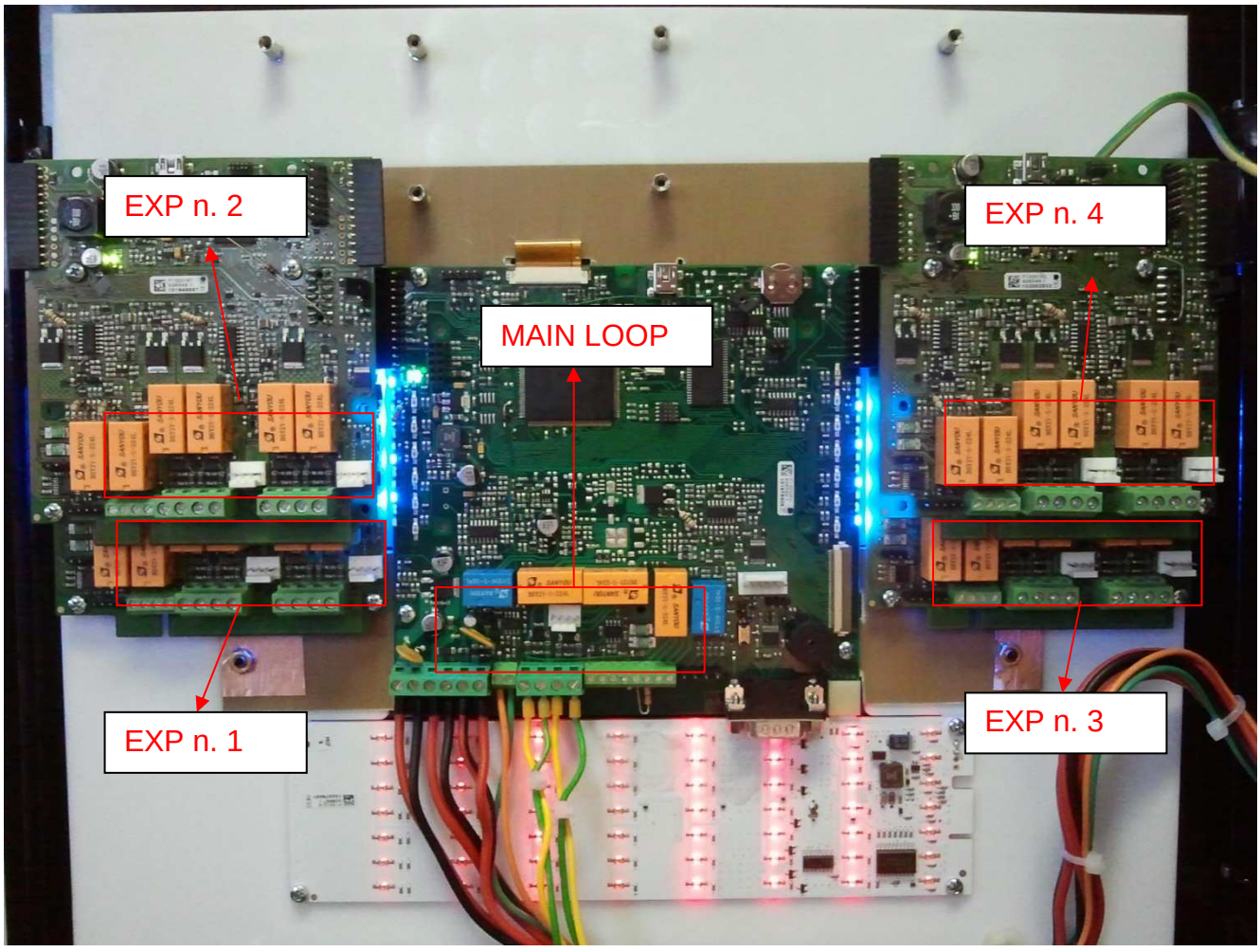
Connector J11

PIN no.	name	FUNCTIONALITY
1	L2+ send	Loop 2 + Send
2	L2- send	Loop 2 - Send
3	L2+ ret	Loop 2 + return
4	L2- ret	Loop 2 - return

7.3 TD574/A EXP expansion card installation (optional)

Install the expansion cards as shown in the picture. Every card is automatically addressed respecting the installation position.

Warning: follow the installation order provided below.

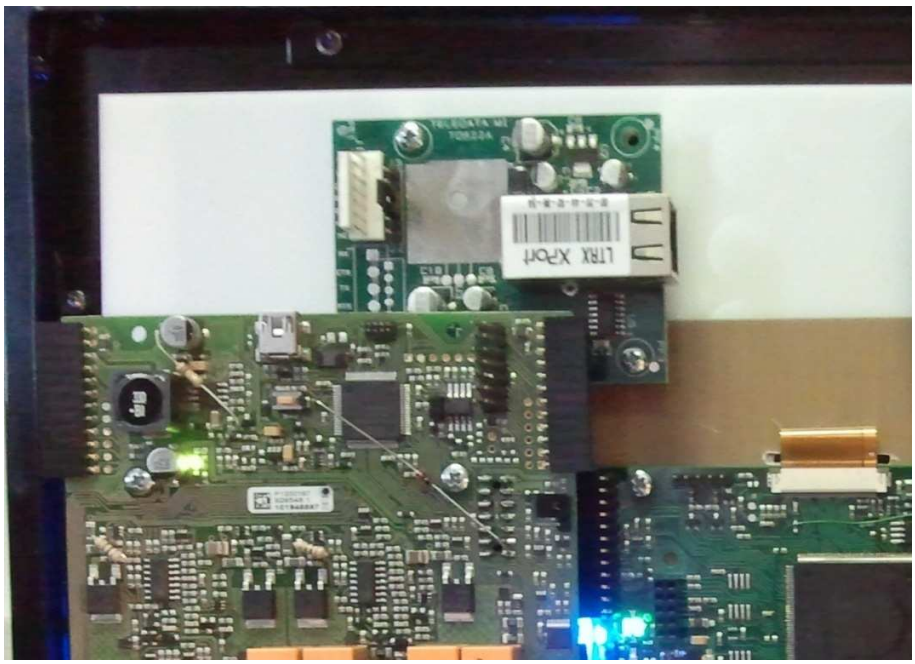


According to their position, the cards perform the following functions:

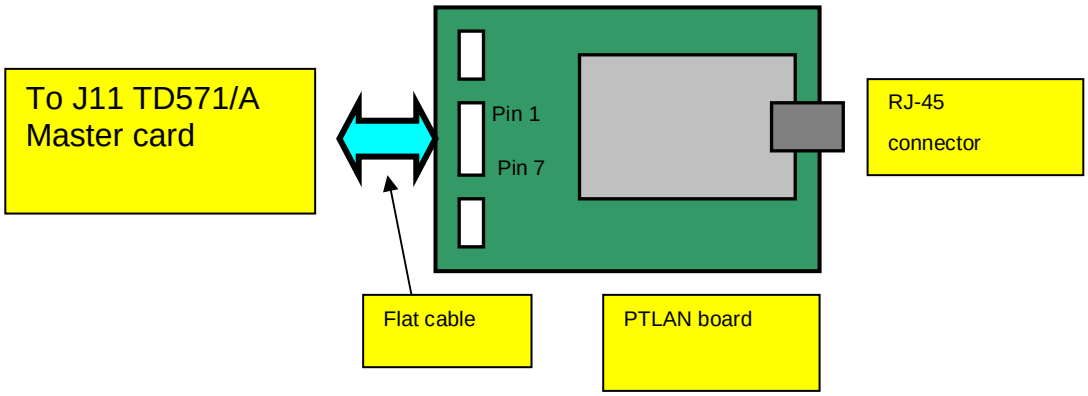
1. **EXP n. 1** signal for loop 2 and 3
2. **EXP n. 2** signal for loop 4 and 5
3. **EXP n. 3** signal for loop 6 and 7
4. **EXP n. 4** signal for loop 8 and 9

7.4 PT-LAN Card (optional)

The PT-LAN card, if included, is supplied with a flat cable and must be connected to the main board on connection J3 as shown below:



Connect as shown:



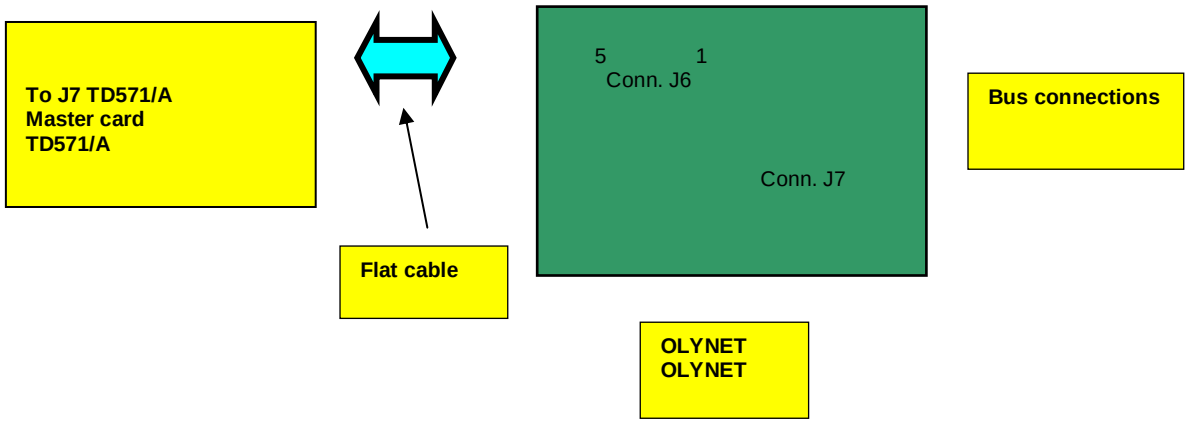
- Connect the flat cable to the connector J3 (7 pin) of the network card and to connector J11 (6 pin) of the main board. Leave free the 7th pin on the panel side which corresponds to the NC function.

Note: do not force connectors.

- Connect the control panel to the network card on connector RJ-45 of the network card using:
  - **10BASE-T crossed** network cable: for connection to the host PC
  - **10BASE-T direct** network cable: for connection to a hub.

7.5 OLYNET Card (optional)

The OLYNET card, if included, is supplied with a flat cable and must be connected to the main board on connection J7 as shown below:



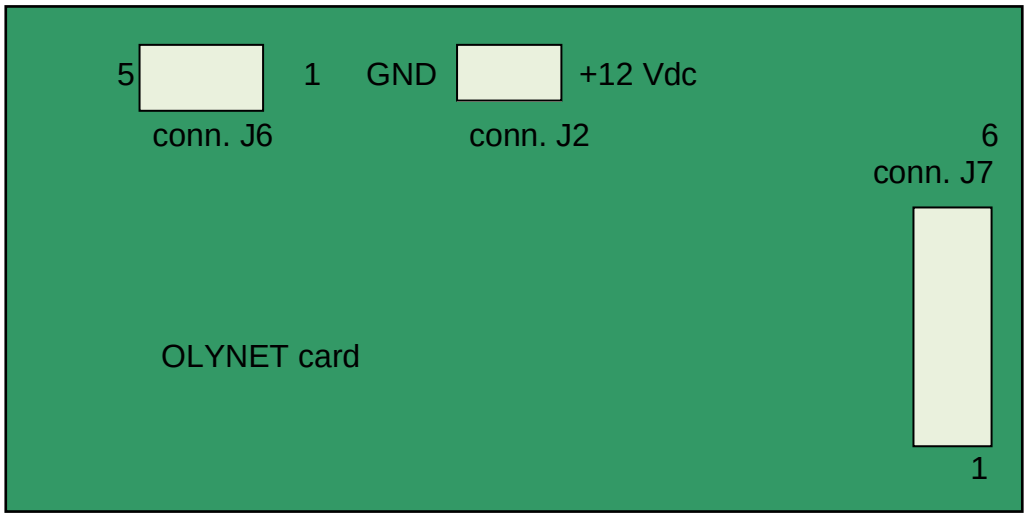
The control panel should be connected with cables with the following technical specifications:

- To use can bus cable with knowledge impedance- 120 ohms typ. (es. BELDEN 9842)
- Max distance at 50 kbit/s : 1000m

Network cable characteristics

LENGTH	TYPE OF CABLE
Up to 40mt	0.25-0.34mm^2
Up to 300mt	0.34-0.6mm^2
Up to 600mt	0.5-0.6mm^2
Up to 1000mt	0.75-0.8mm^2

Note: with shielded fire 1mm^2 cable, max distance 400m at 50Kbit/s speed.



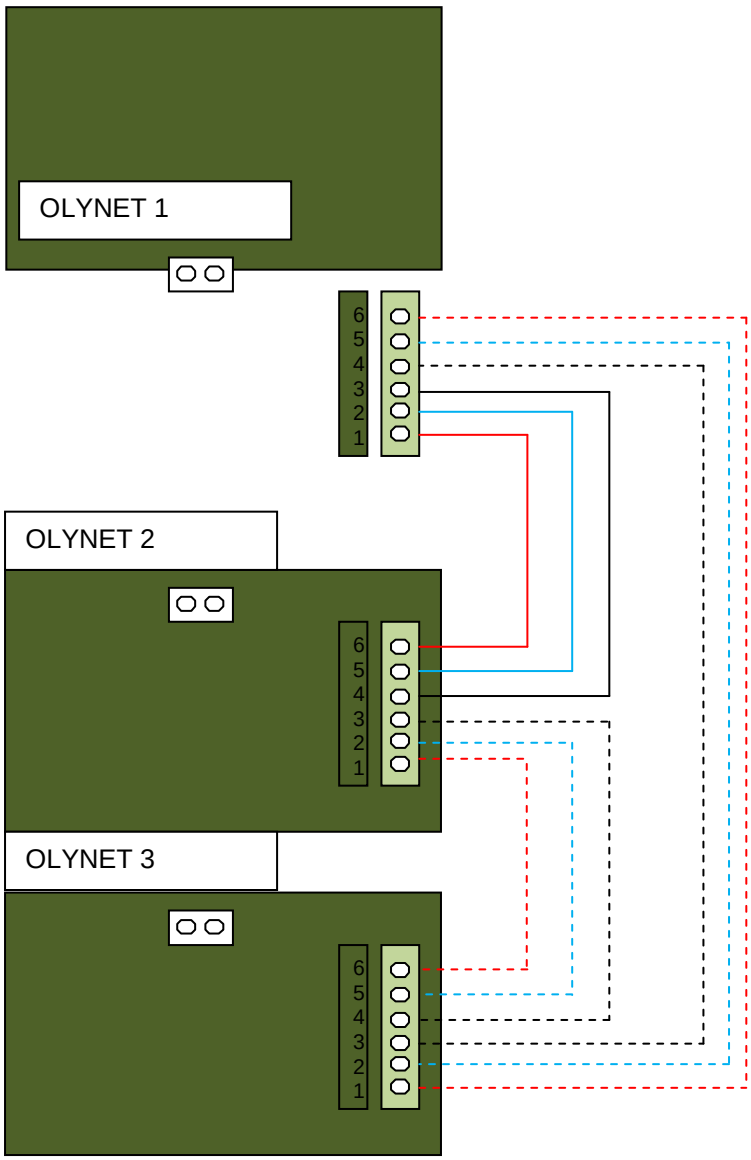
J7 Connector on TD542/A OLYNET card

N. PIN	name	FUNCTIONALITY
1	CH side a	Bus H side A
2	CL side a	Bus L side A
3	Gnd/bus	Gnd bus ref.
4	Gnd/bus	Gnd bus ref.
5	CL side b	Bus L side B
6	CH side b	Bus H side B

J2 Connector on TD542/A OLYNET card

N. PIN	name	FUNCTIONALITY
1	12Vdc	+ Power supply
2	GND	- Power supply

OLYNET cards must be connected to one another as described below:



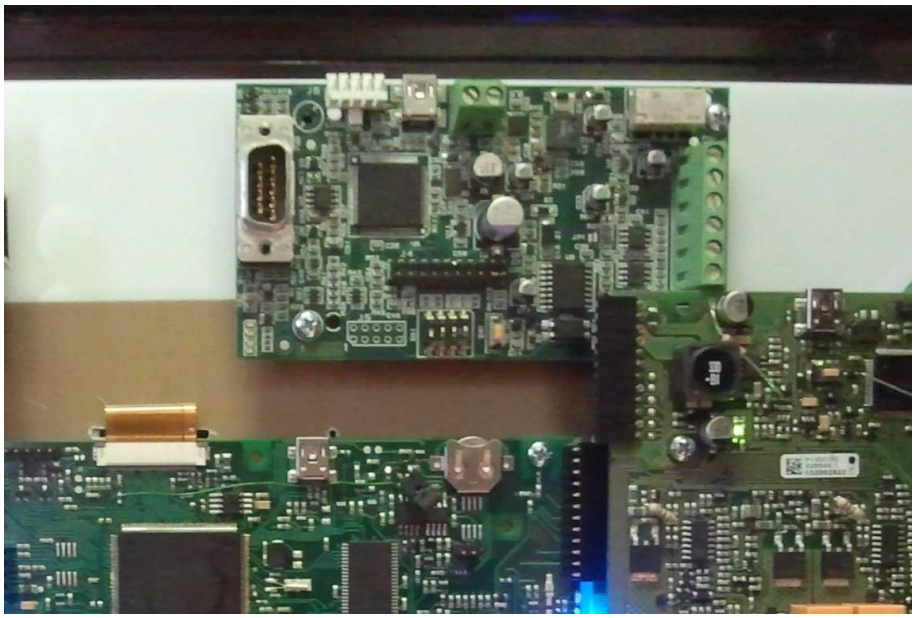
- CH A side of OLYNET 1 to CH B side of OLYNET 2
- CH A side of OLYNET 2 to CH B side of OLYNET 3, and so on until the ring is closed back to OLYNET 1

- CL A side of OLYNET 1 to CL B side of OLYNET 2;
- CL A side of OLYNET 2 to CL B side of OLYNET 3, and so on until the ring is closed back to OLYNET 1.
- Connect also the ground bus (GND) between two consecutive OLYNET cards

OLYNET ring network is developed to ensure functionality with a bus cut or short.

The system is able to keep the OLYNET data transfer in degraded mode, in case of power failure of one or more OLYNET cards.

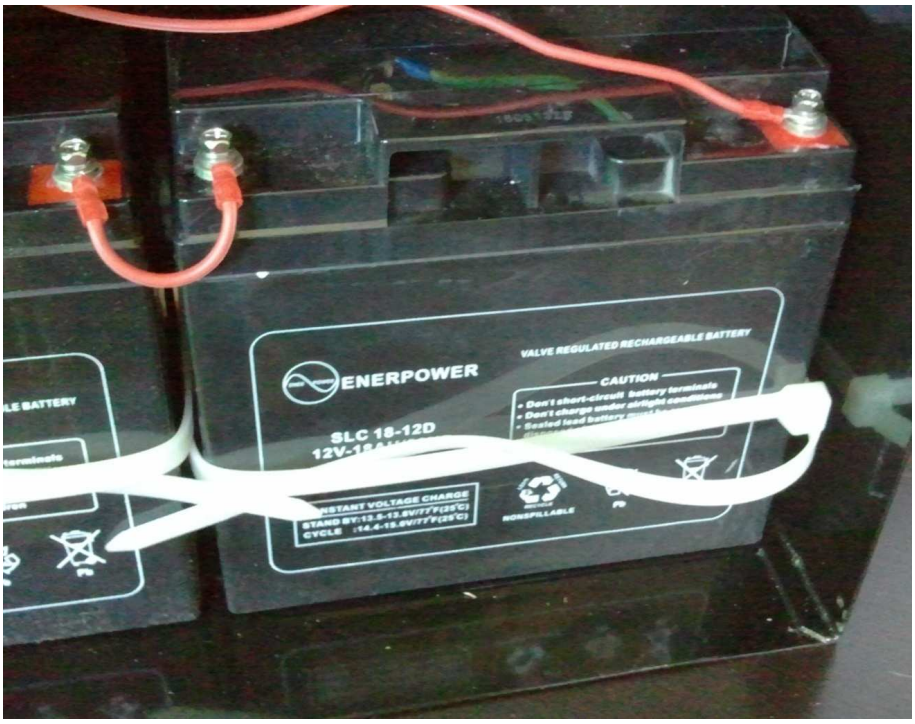
Note: check the bus connections before starting the system.



7.6 Batteries housing

Teledata One mechanics can contain two 7.2Ah or 17 Ah batteries.

Batteries must be blocked with the nylon strips supplied.

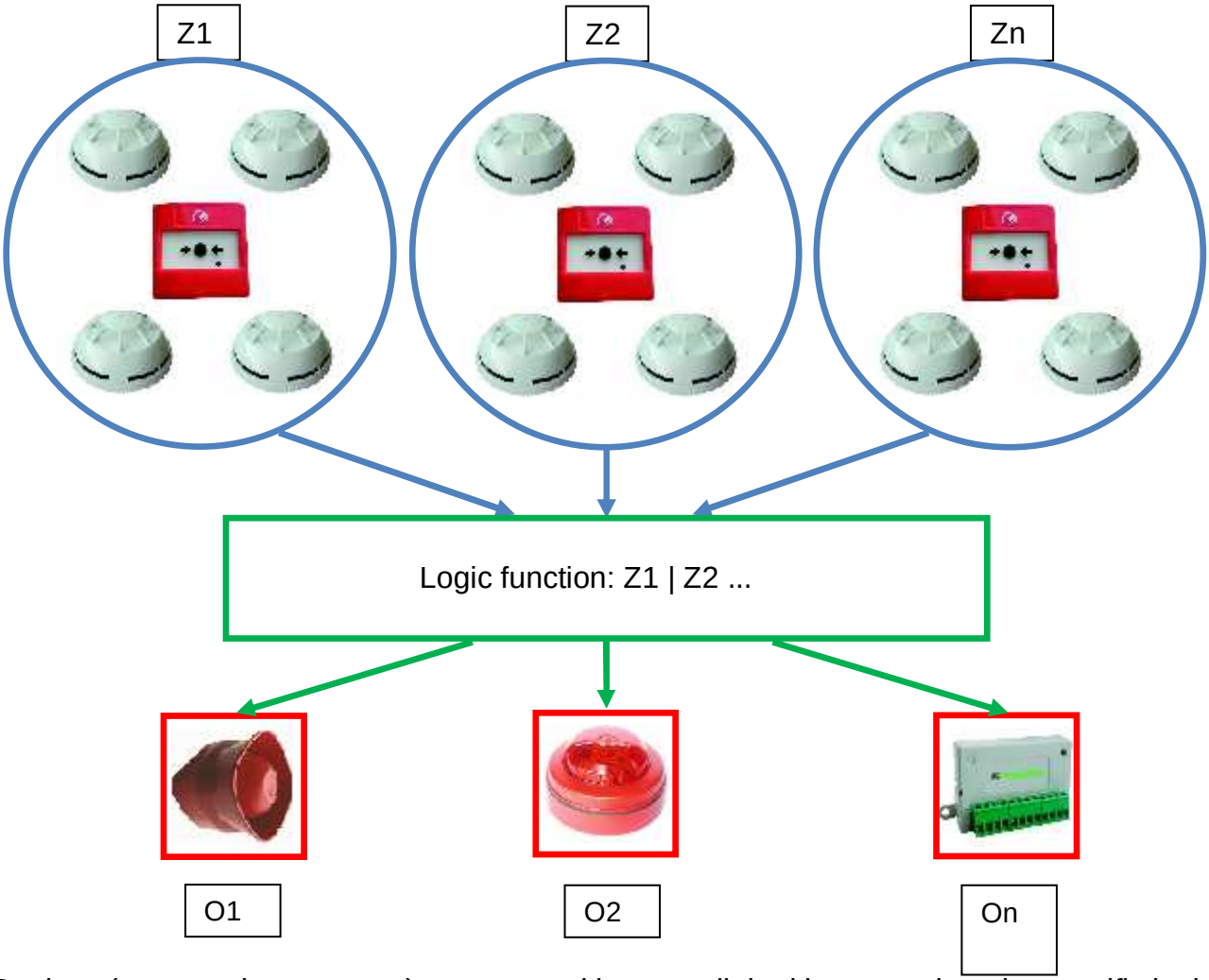


7.7 Plant description

Below a description of the control panel logic and of connections required to set-up the plant.

7.7.1 Relations between the elements of the plant

The following picture shows the relations between the various elements that make up the plant managed by the control panel.



Devices (sensors, buttons, etc.) are grouped in zones linked between them by specific logical functions that can activate one or more outputs.

7.7.2 Sounder and load connection

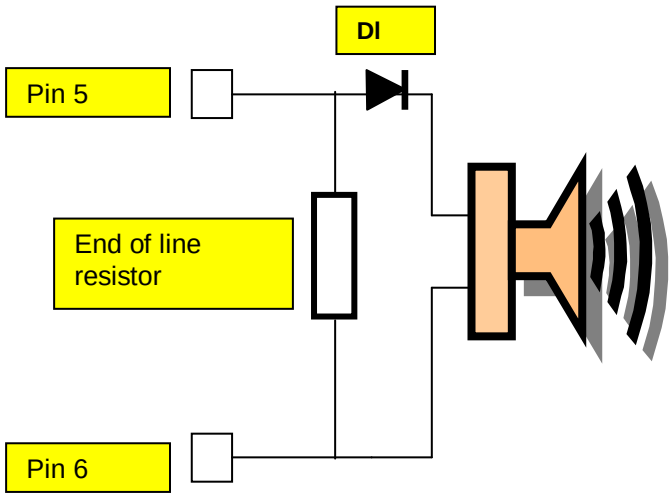
The outputs 5, 6 of the connector J4 are used to connect the loads (sounders, bells, optical acoustic panels) for which it is necessary to monitor the cut and the short.

The control panel will diagnose the presence of a cut or of a short circuit on the connection line of the loads. In the event of one of these cases the control panel will indicate it by means

of an optical (respective legend on the display, yellow LED for sounder fault is on) or acoustic signal (beep is on).

Follow the instructions below:

- Connect a 3.3kΩ ¼ watt end line resistance with a Dl type 1N4007 diode. Normally these resistors and diodes are provided with the control panel



- Do not connect loads from the control panel whose cables have a resistance value higher than

The diagnostics of these outputs is activated only when the load is deactivated (that is when the control panel does not report any alarms)

If load is used with internal protection diode (optical acoustic plate type) the protection id diode may be omitted.

7.8 Communication with detectors and modules

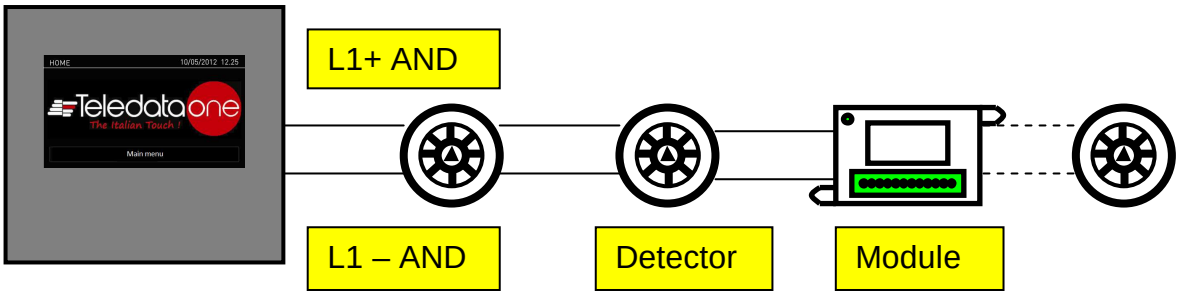
The Teledata One control panel communicates with detection and control devices that are addressable through a loop.

It is possible to use the control panel within equipment endowed with open loop configuration as well as equipment endowed with closed loop configuration.

According to the effective standards, in the event of equipment with more than 32 modules/detectors it is necessary to use the closed loop configuration.

7.8.1 Open loop configuration

Below an example of open loop configuration.



This configuration uses lines **L+** e **L-** on pins L1 - OUT and L1 + OUT of connector J9.

It is possible to connect up to 32 detectors and modules (in and out) on the line.

7.8.2 Generic loop connection requirements

Match the following requirements:

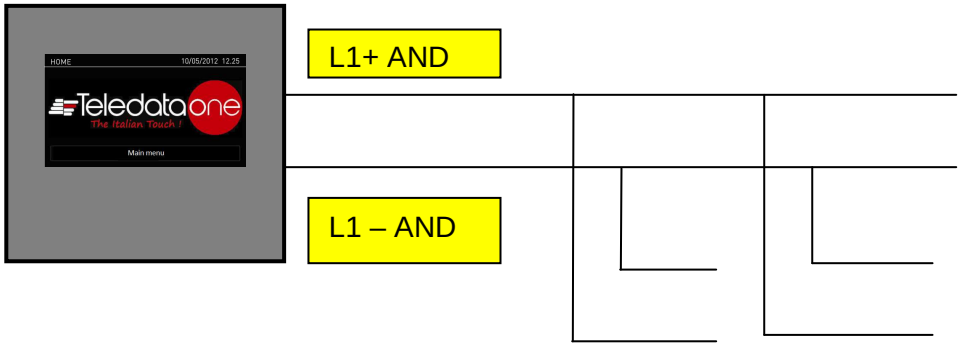
- twisted and shielded 2-conductor cable,
- total line length should not exceed:

LENGTH	TYPE OF CABLE
Up to 1250mt	2x0.5mm^2
Up to 1850mt	2x0.75mm^2
Up to 2500mt	2x1mm^2
Up to 3500mt	2x1.5mm^2
Up to 5000mt	2x2.5mm^2

- line resistance should not exceed 100Ω,
- line cables installed on a dedicated path,
- cables placed at a proper distance from the power lines.

7.8.3 Open loop configuration ("T" junctions)

Below an example of open loop configuration with "T" junctions.



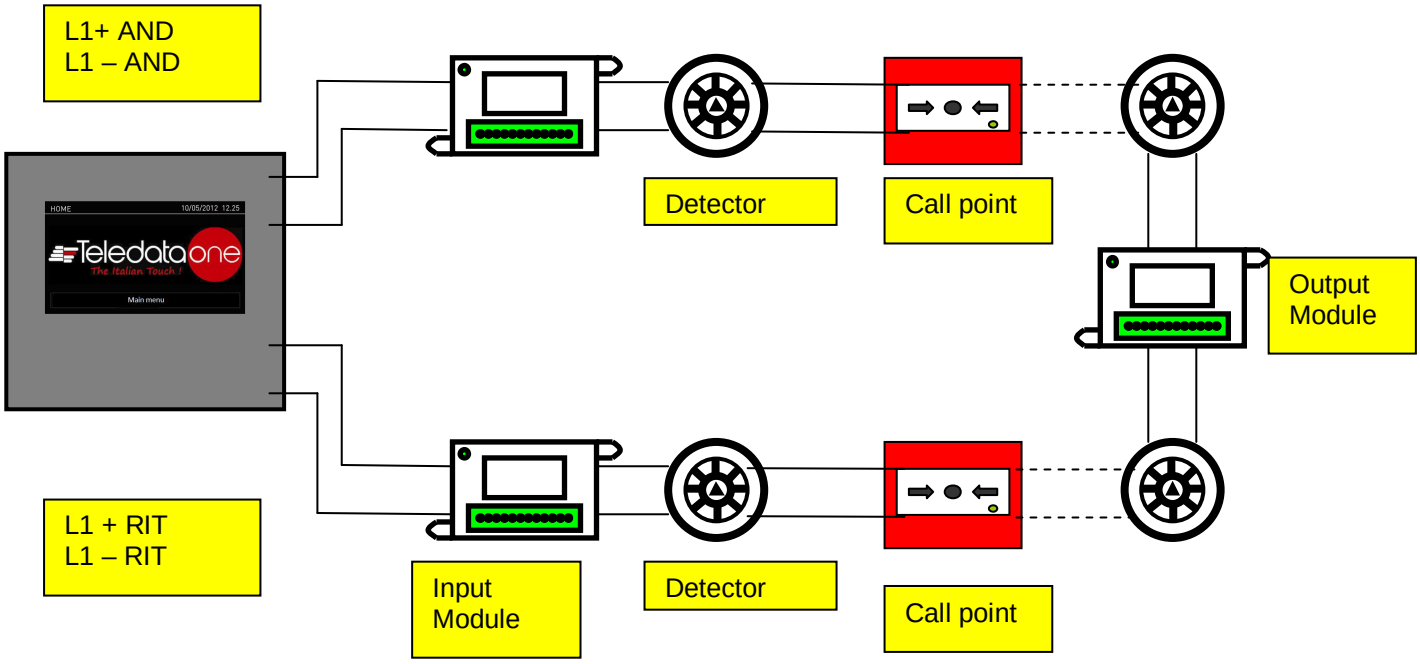
7.8.4 Connection requirements for an open loop connection with "T" junctions

Match the following requirements:

- the total length of all legs should not exceed the maximum allowed length, according to the cross section of the cable used,
- total resistance from the control panel clamps to the end of every leg should not exceed 100Ω.

7.8.5 Closed loop configuration

Below an example of closed loop configuration.



This type of configuration uses **L-** and **L+ AND** and **L-** and **L+ RIT** lines of connector J5.

It is possible to connect up to 240 detectors and modules on the line (IN and OUT).

If SFx000E type sensors are used, install an insulator module or sensor/module with on-board insulator for every 32 devices as required by current regulations.

7.8.6 Connection requirements for a closed loop connection

Match the following requirements:

- total line length (between OUT and IN) should not exceed the maximum allowed length according to the cross section of the cable used,

7.8.7 Connectable loop devices

It is possible to connect the following devices on the loop:

- SF1000 optical smoke detector
- SF3500 temperature detector, programmable as rate of rise at 58 ℃ (A1R category) or as thermal at 78 ℃
- SF2000 optical + rate of rise detector at 58 ℃ (A1R category)
- SF1000E like SF1000 but without isolator.
- SF3500E like SF3500 but without isolator.
- SF2000E like SF2000 but without isolator.
- FDVMI100 supervised IN module
- FDVMC100 supervised OUT module
- FDVMC120 form C OUT module
- FDS1000 loop addressable sounder
- BS100 bases for SFx000 and SFx000E detector installation.

All the above mentioned devices can be addressed by means of the appropriate programming tool **FDVPU1000**.

By means of the same tool it is also possible to program the type of functionality of the temperature detectors SF3500 and to read some basic parameters of the different devices.

In order to read more about how to use the above described tool, please refer to the chapter of this handbook.

Follow the instructions below:

- All above mentioned devices are provided with an incorporated line insulator. This element, which is installed in the devices, is connected to the line. It is therefore necessary to strictly observe the line wiring instructions (line – input, line – output) when any kind of device is going to be connected to the loop, as described in the data sheet (connection instructions sheet) of the device.
- It is necessary to strictly observe the instructions concerning the input/output loads connection described in the data sheet of all input/output devices (input/output modules)

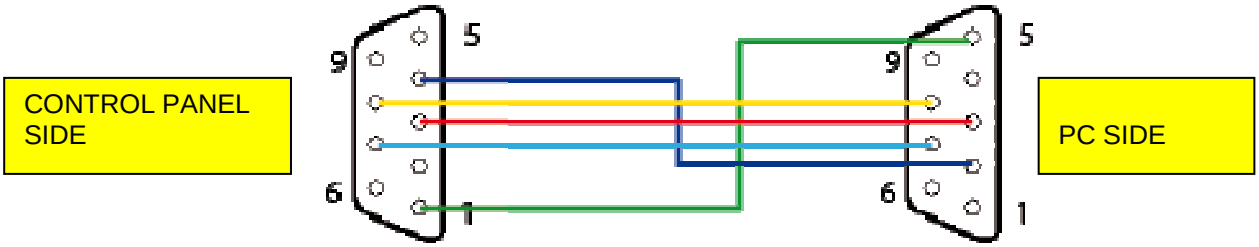
7.9 Connection to host computer

The control panel can be connected to a host computer by means of a Point2Point connection or online by means of an appropriate LAN interface.

7.9.1 Point2Point connection

Below an example of Point2Point connection.

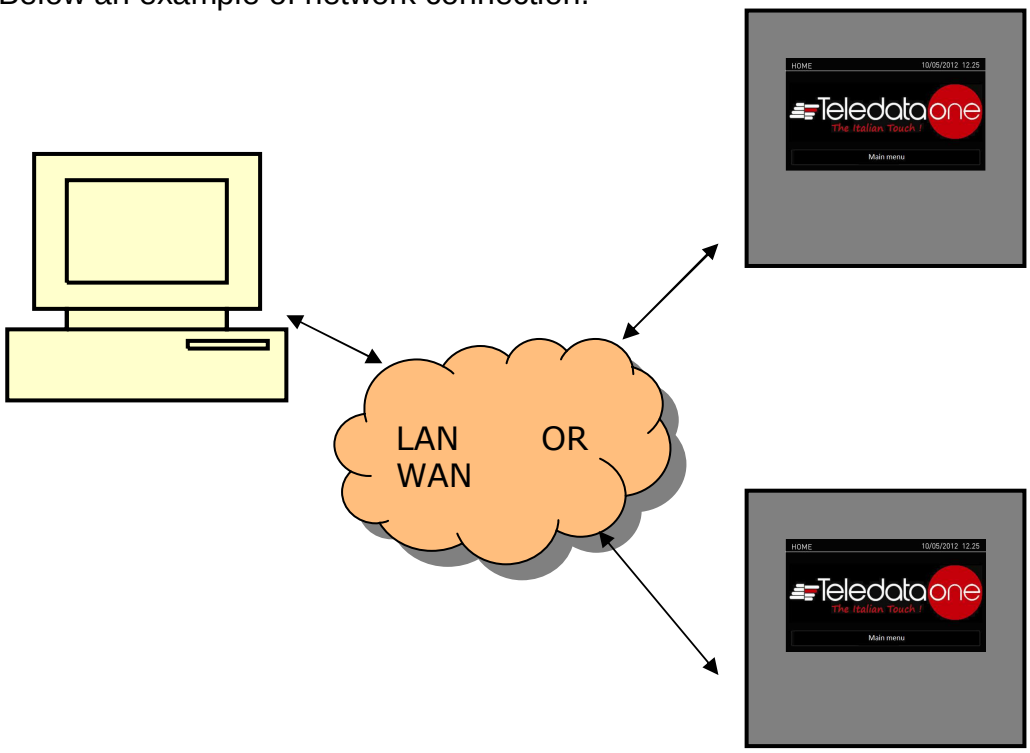
These types of configuration can be carried out through serial port that connect the host computer directly to the control panel through the connector P1.
A connection diagram is provided below.



It can be used for point to point connections with the program host to download a new firmware version.

7.9.2 LAN or WAN connection

Below an example of network connection.



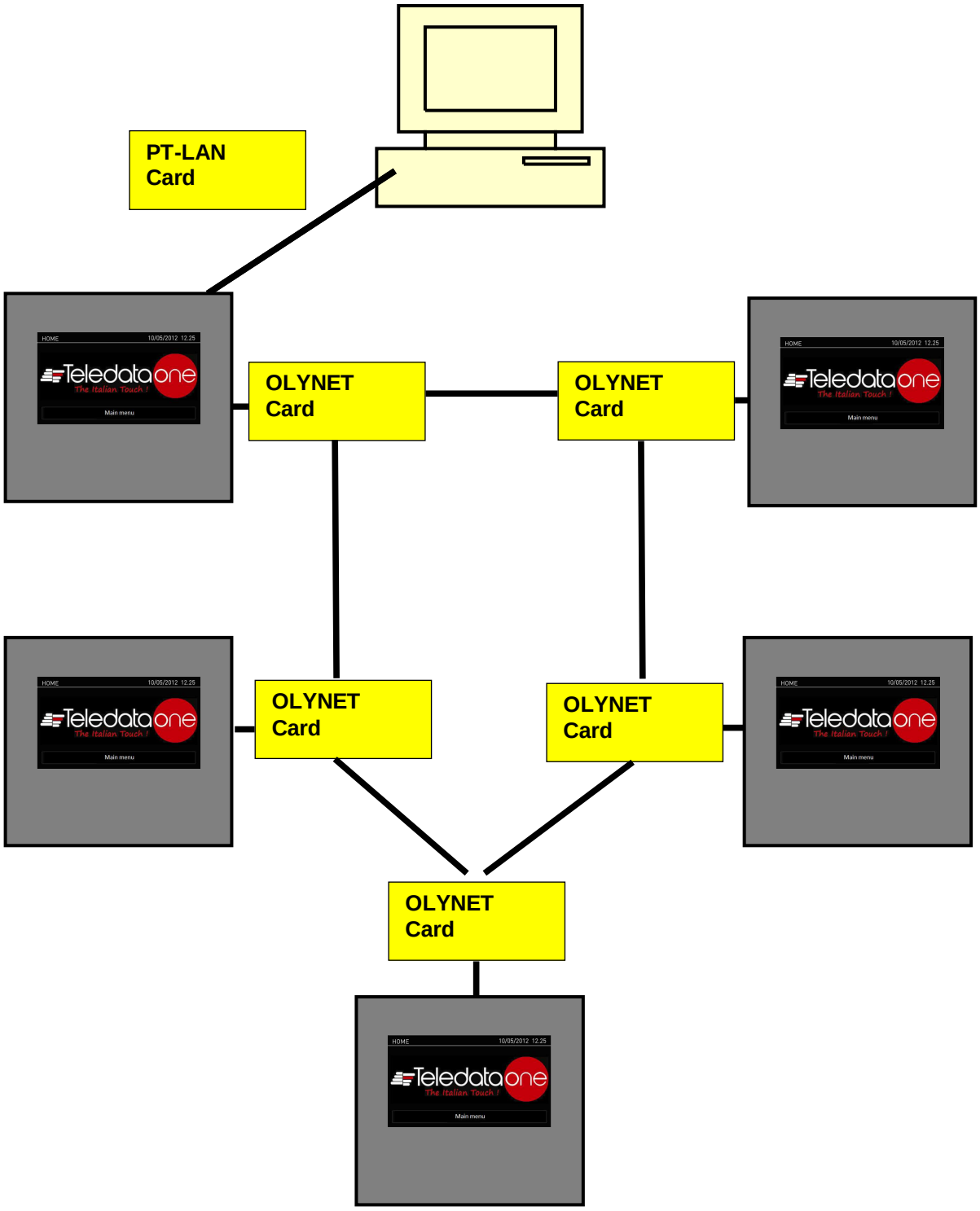
By means of this configuration it is possible to connect one or more control panel in a LAN or WAN environment and monitor them from a host provided with centralized supervision functionality.

7.9.3 Teledata One control panel ring network

More than one Teledata One control panel may be connected together in a ring network on a dedicated bus, by installing the optional OLYNET network card.

In this network, events and alarms can be shared.

Below an example of ring network connection.



7.10 Power supply

7.10.1 Network input features

The control panel has to be installed according to the national installation standards.

It is requested to carry out a connection to a separated AC line that has to be marked with the label **FIRE SYSTEM.**

Use a double-pole circuit breaker with a minimum sensitivity of 6 A.

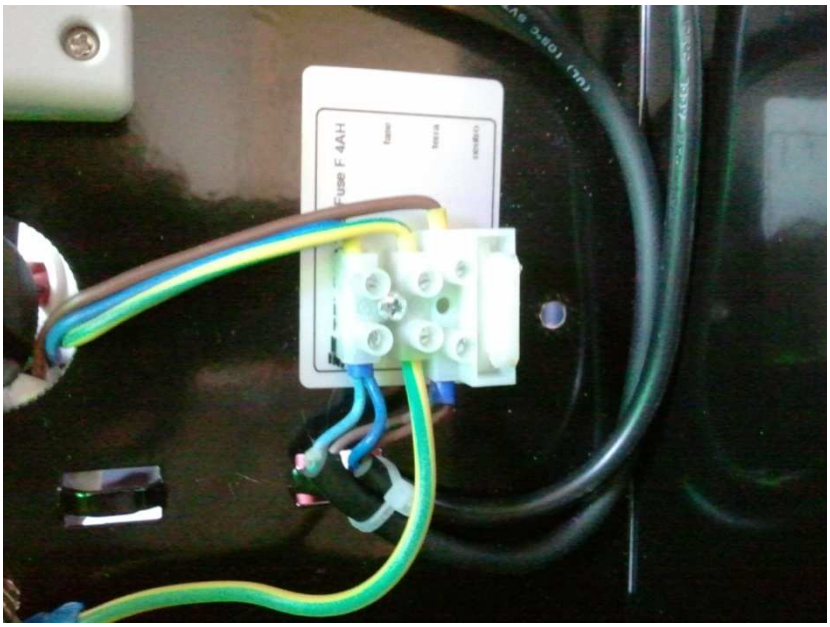
The connection wires have to have a proper cross section area and a minimum insulation of **600V**.

The network input has to have the following features:

- Supply voltage 230 Vca +/- 10%
- Frequency 50/60 Hz

7.10.2 Grounding features

The grounding installation has to be carried out according to the CEI and ISPLES standards and with a resistance lower than **10Ω**.



7.10.3 Panel power supply features

Following features are useful for the system installation:

- Output operating voltage 27.6 V - Max. 500mA
- Voltage of battery charger 27.6 V- Max. 900mA
- Low battery threshold 21.6 Volts
- Battery release threshold 20.4 Volts

The battery charger section works as follows:

- In the event of power failure the control panel is fed by the backup batteries. The green network connected led turns off.
- If the battery voltage drops below the low-battery threshold, an acoustic (beep) and optical (on-screen message) signal are activated
- In this situation, to restart the control panel, restore the network power supply. Batteries should then be recharged or replaced.
- If no battery is installed, at the first battery control carried out periodically by the control panel, an acoustic (beep) and optical (on-screen message) signal are activated to signal that the batteries in the control panel are missing.
- If the battery's internal resistance (including the resistance due to contacts and cables) is higher than 600 mΩ, the control panel will emit an acoustic (beep) and optical (on-screen message) alarm.

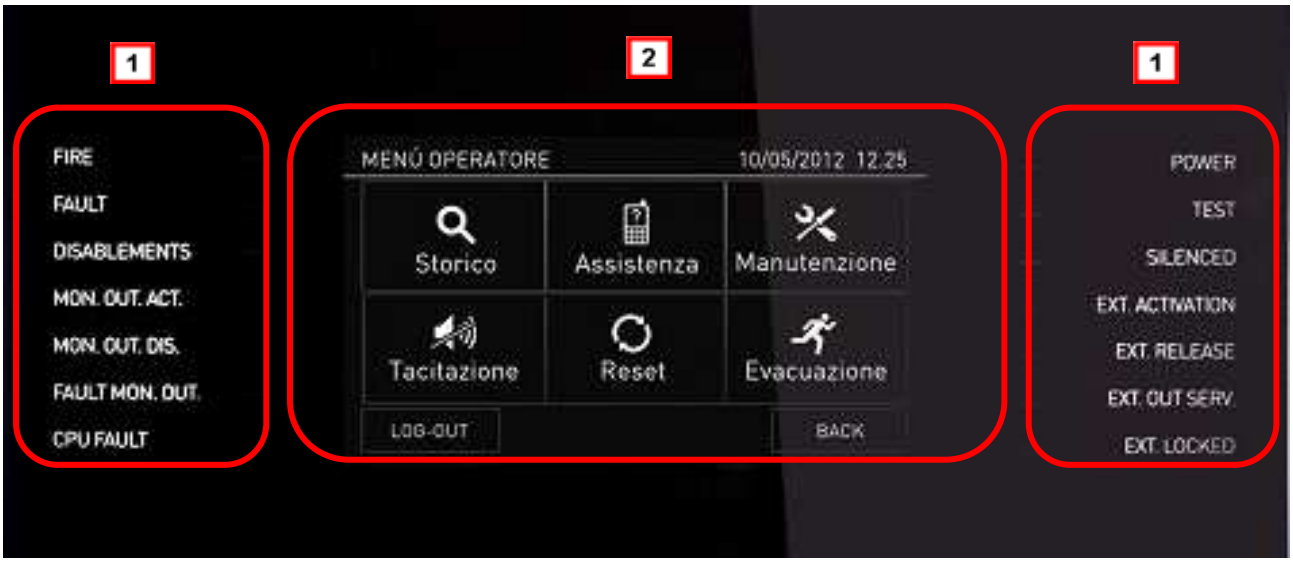
Note: the value of internal resistance is fixed for to 7.2 Ah and 17 Ah batteries.

As far as the operating +24 V power supply section for external loads is concerned:

- The voltage output is protected against short circuits.
- In the event of a short circuit an acoustic (beep is on) and optical (message on the display) signal is activated.

8. Control panel

The control panel includes the following elements:



Area	Description
1	Status led
2	Graphic interface (touch screen)

8.1 Status led

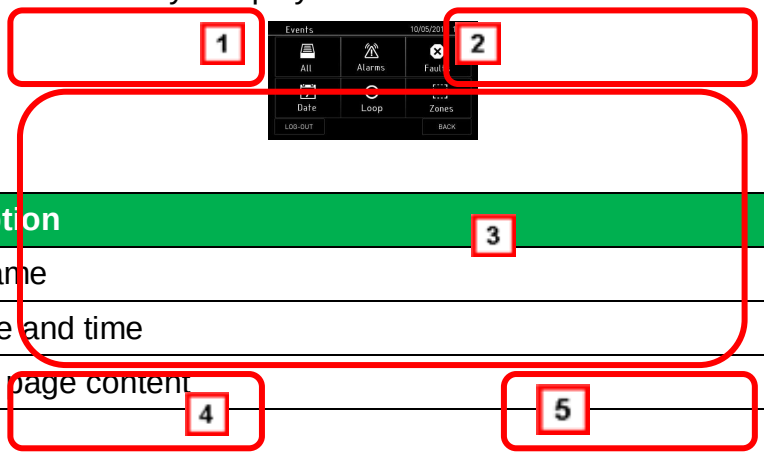
The following led are on the control panel:

Name	Color	Description
Alarm	red	Fire somewhere in the system
Fault	yellow	Generic fault
Exclusion	yellow	Bypassed devices or peripherals
Out. Mon	yellow	Monitored output on
Out. Mon Exit.	yellow	Monitored output bypassed
Out. Mon Fault	yellow	Monitored output fault
CPU fault	yellow	CPU fault
Network	green	Power on
Test	yellow	Testing devices
Muted	yellow	Alarm muted from keyboard
Ext. on	yellow	Extinguisher circuit on (not available)

Name	Color	Description
Release Ext.	yellow	Extinguisher circuit off (not available)
Ext. Out of Order	yellow	Extinguisher circuit fault (not available)
Ext. forced block	yellow	Extinguisher circuit locked (not available)

8.2 Graphic interface

The following elements are always displayed in all menus:



Area	Description
1	Page name
2	Unit date and time
3	Specific page content
4	Exit key
5	Back key

8.3 Types of users

The unit can be used by three different types of users:

- **User** who can:
  - view system events
  - mute alarms and the unit
  - reset alarms and the unit
  - bypass devices
  - reset installed devices
- **Programmer** who can:
  - set and initialize the unit
  - view system events
  - bypass devices
  - reset installed devices
  - add and set new devices
  - add new expansion boards to the unit
- **Technical support** who can:
  - carry out all operations reserved to Technical support personnel.

Each operator can only open the screens required to run their permitted operations.

Any operator can view system status and current events because these operations are directly accessible from the Main page which is not password protected.

8.4 Access levels

There are four access levels to the control panel:

- **Level 1**: no access code is required
- **Level 2**: reserved to Users (three operators maximum); an access code is required
- **Level 3**: reserved to Programmers; an access code is required (and jumper JP3 must be closed)
- **Level 4**: reserved to Technical support; a wired PC connection is required.

9. Basic operations for any operator

9.1 View basic information

The home page is viewed when turned on if no events have occurred:

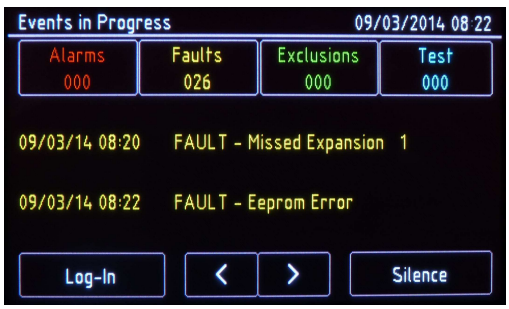
Press **Main Menu** to view it:

The menus in this page can be opened without entering any code.

Options

Menu	Function
Events	Opens the Events menu.
Assistance	Opens the Assistance page.

If any type of event has occurred, the **Current events** page is displayed when turned on.



Fields

Field	Description
Alarms	Displays the number of devices in alarm conditions.
Faults	Displays the number of devices in fault conditions.
Exclusion	Displays the number of devices in bypass conditions.
Test	Displays the number of devices in test conditions.

Options

Option	Function
Log – in	To open unit functions with a login code.
< >	To scroll pages that display all events.
Silence	To mute the panel buzzer (but not device alarms).

9.1.1 Viewing events

Main menu -> Events

The **Events** menu lets you view events logged by category.

Procedures

To view all events:

Select **All**: a list of all events is displayed.

To view all alarms:

Select **Alarms**: a list of all alarms is displayed.

To view all faults:

Select **Faults**: a list of all faults is displayed.

To view events on a specific day:

1. Select **Date**: the **Log by Date** screen appears.
2. Set the date of the events to be viewed.
3. Press **Save** to confirm: all events on the selected day are displayed.

To view events in a specific loop:

1. Select **Loop**: the **Log by Loop** screen appears.
2. Select the loop of the events to be viewed.
3. Press **Save** to confirm: all events in the selected loop are displayed.

To view events in a specific zone:

1. Select **Zone**: the **Log by Zone** screen appears.
2. Select the zone of the events to be viewed.
3. Press **Save** to confirm: all events in the selected zone are displayed.

9.1.2 Viewing assistance information

Main menu -> Assistance

Information required to receive assistance is displayed in this page.

9.2 Login

Main page -> Log-in

Default settings

The following codes are set by default:

- **User code**: 22222, 22223, 22224
- **Programmer code**: 33333

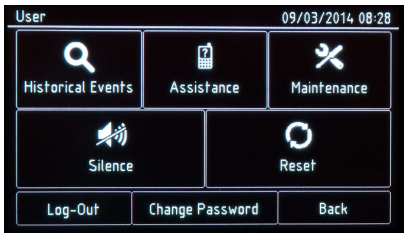
Note: default user profile passwords 22223 and 22224 are disabled. For instructions on how to enable them, see *Enabling users and changing login codes*).

Procedure

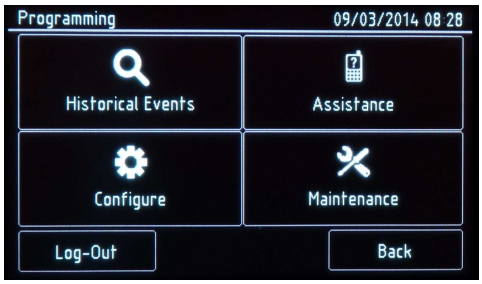
1. Insert the 5 digits of the code.
2. Press **OK** to confirm: the relevant menu is displayed according to the entered code.

WARNING: change the password as soon as possible to avoid unauthorized system access (see *11.2 Enabling users and changing login codes*).

User menu



Programming menu



Procedures used by the various operators who work on the unit are described below.

This icon identifies functions reserved to the User.

This icon identifies functions reserved to the Programmer.

10. Programming

Note: the functions described below can only be run by authorized operators who have a system login code specific to the task to be performed.

10.1 Setting up the panel

The following functions are reserved to the Programmer.

To set up the panel after installation:

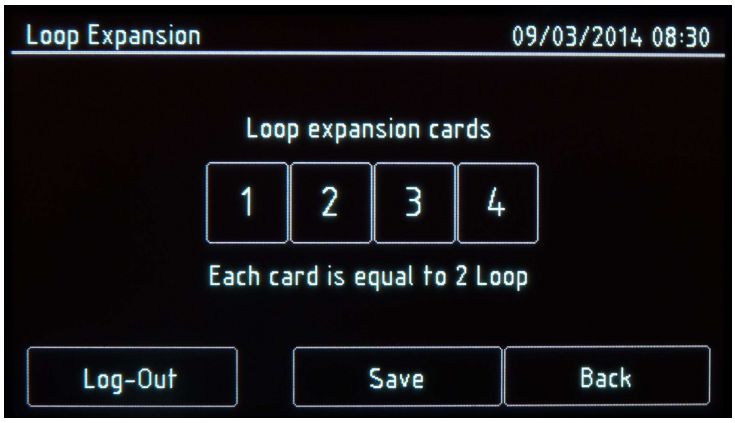
- set the number of installed expansion boards,
- set device addresses,
- set connected device names and features,
- group devices in zones,
- set relations between zones,
- create logic functions to turn on outputs,
- set output activation,
- set the calendar.

10.1.1 Setting up expansion boards

Programming menu -> Settings -> System -> General -> Add boards

This function lets you specify how many additional boards were installed on the unit.

Note: each expansion board contains another 2 addressed loops.



Procedure

1. Select the number of additional boards on the unit.
2. Press **Save** to confirm.

10.1.2 Run self-addressing

Programming menu -> Settings -> Self-Add.

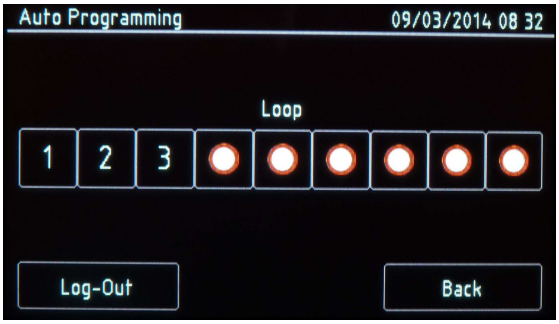
Function currently unavailable.

This function lets you automatically set an address for all devices connected to the unit.

10.1.3 Run self-programming

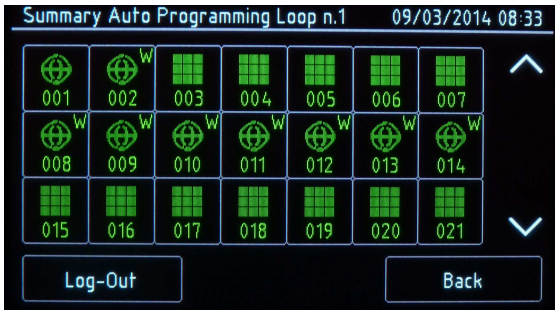
Programming menu -> Settings -> Self-Prog.

This function lets you search for and save all devices connected to the unit.



Procedure

Select the required loop: start self-programming and devices found will be displayed as illustrated in the example.



10.2 Set sensors

The following functions are reserved to the Programmer.

Programming menu -> Settings -> Devices/Zones -> Sensors

This function lets you:

- add a sensor
- edit an installed sensor
- apply one sensor settings to one or more consecutive sensors

- eliminate a sensor

Settings

Sensor parameters to be set are described below.

Parameter	Description
Name	Sensor identification name
Type	Type of connected sensor (Optical, Thermal, Optical Thermal)
Radio	Identifies wireless devices. A FDW2W wireless converter must be installed with wireless devices.
Alarm test	Enables an alarm test mechanism for an amount of time that can be programmed using parameter **Test seconds.**
Test seconds	Interval, in seconds, between detecting an alarm and sending the alarm to the unit. If set to zero, the unit only emits an alarm signal when it receives consecutive alarms from the sensor within 60 seconds of the first alarm. When the first two alarms are received, the unit ignores them and resets the sensor.
Sensitivity management	• **24 H**: the level of sensitivity remains the set one for the entire day. • **Night**: sensitivity increases by one level at night.. • **Fixed**: fixed sensitivity set to Medium High. If the **Night** option is selected, also set the **Weekly Trend**.
Sensitivity	Sensor level of sensitivity (Low, Medium Low, Medium High, High)
Weekly trend	Sets the weekly trend for the sensor (see *10.8.1 Setting weekly trends*).

Procedures

To add a sensor:

1. Select the **Add** option: a list of loops in the system is displayed.
2. Select the loop where the sensor is to be added: a list of sensors in the loop is displayed.
3. Select an unused sensor number: the sensor settings window is displayed.
4. Enter the required settings.
5. Press **Next** to move to the next screen.
6. Press **Save** to confirm.

To edit a sensor:

1. Select the **Edit** option: a list of loops in the system is displayed.
2. Select the loop that contains the sensor.
3. Select the required sensor.
4. Edit settings.

5. Press **Save** to confirm.

To eliminate a sensor:

1. Select the **Delete** option: a list of loops in the system is displayed.
2. Select the loop that contains the sensor.
3. To delete a single sensor, press the sensor twice.
4. To delete several consecutive sensors, press the first and last module in the interval.
5. Press **Save** to delete the sensor or sensors.

To copy a sensor:

1. Select the **Copy** option: a list of loops in the system is displayed.
2. Select the loop that contains the sensor to be copied
3. Select the sensor to copy settings from.
4. Select the first sensor in the group to copy settings to.
5. Select the last sensor in the group to copy settings to.
6. Press **Save** to apply settings to all selected sensors.

10.3 Setting modules

The following functions are reserved to the Programmer.

Programming menu -> Settings -> Devices/Zones -> Modules

This function lets you:

- add a module
- edit an installed module
- apply one module settings to one or more consecutive sensors
- delete a module

Settings

Following are the parameters to be set for all types of modules.

Parameter	Description
Name	Module identification name
Radio	Identifies wireless devices. A FDW2W wireless converter must be installed with wireless devices.
Type	Module type (Input, Output, Expander).

Following are the parameters to be set for an **Output** type module.

Parameter	Description
Alarm test	Enables an alarm test mechanism for an amount of time that can be

Parameter	Description
	programmed using parameter **Test seconds.**
Test seconds	Interval, in seconds, between detecting an alarm and sending the alarm to the unit. If set to zero, the unit only emits an alarm signal when it receives consecutive alarms from the sensor within 60 seconds of the first alarm. When the first two alarms are received, the unit ignores them and resets the sensor.
Type	Module type (Key, Gas)
Technological	Identifies the alarm signal as "technological" and thus less critical.
For **Gas** type modules only	
Pre-alarm	Turns on the pre-alarm function When a pre-alarm is detected: • all output modules associated with the output zones where the pre-alarm was triggered are turned on (see *10.5 Setting output zones*), • the unit red led blinks, • if the pre-alarm is not reset during the pre-alarm time or an alarm triggers, the unit red led turns on.

Following are the parameters to be set for an **Input** type module.

Parameter	Description
Type	Module type (Flash, Siren, Optical Repeater).
Reset sensors	Turn on for devices not directly connected to the digital loop to reset a sensor alarm.
Evacuation on	Turn on to identify evacuation sensors that turn on in the event of alarm.
For **Siren** type modules only	
Volume	(for siren model FDVBLS100/32 or FDVBS100-AV/32 only) Siren volume level, also set the tone.

Procedures

To add a module:

1. Select the **Add** option: a list of loops in the system is displayed.
2. Select the loop where the module is to be added: a list of all devices in use, both modules and sensors, in the loop is displayed.
3. Select an unused module number (blank): the module settings window is displayed.
4. Enter the required settings.
5. Press **Next** to move to the next screen.
6. Press **Save** to confirm.

To edit a module:

1. Select the **Edit** option: a list of loops in the system is displayed.
2. Select the loop that contains the module.
3. Select the required module.
4. Edit settings.
5. Press **Save** to confirm.

To delete a module:

1. Select the **Delete** option: a list of loops in the system is displayed.
2. Select the loop that contains the module.
3. To delete a single module, press the module twice.
4. To delete several consecutive modules, press the first and last module in the interval.
5. Press **Save** to delete the module or modules.

To copy a module:

This function lets you apply settings for one module to several consecutive modules:

1. Select the **Copy** option: a list of loops in the system is displayed.
2. Select the loop that contains the module to be copied
3. Select the module to copy settings from.
4. Select the first module in the group to copy settings to.
5. Select the last module in the group to copy settings to.
6. Press **Save** to apply settings to all selected modules

10.4 Setting zones

The following functions are reserved to the Programmer.

Tip: before starting these operations, make sure you have understood how the various system elements interact. See *7.7.1 Relations between the elements of* the plant.

Programming menu -> Settings -> Devices/Zones -> Zones

A zone is a list of devices and events that are necessary to generate partitions of the system. It is possible to link devices, loops, and events to a zone.

This function lets you:

- link events, loops and devices to the various zones
- set various zone operating parameters
- link output modules to a zone

10.4.1 Link an event to a zone

Settings

Settings are described below.

Parameter	Description
Alarm	The zone is activated by an alarm.
Fault	The zone is activated by a fault.
Technological	The zone is activated by a minor event defined as "technological".
Coincidence	Number of events that must be recorded to activated the zone.

Procedure

1. Select the **Add** option: a list of zones in the system is displayed.
2. Select the required zone.
3. Select the **Events** option.
4. Select the events to be linked to the zone.
5. Press **Save** to confirm.

10.4.2 Linking loops to zones

Settings

Settings are described below.

Parameter	Description
Entire system	If **Yes**, all system devices activate the zone. If **No**, select the loop that activates the zone.

Procedure

1. Select the **Add** option: a list of zones in the system is displayed.
2. Select the required zone.
3. Select the **Loop** option.
4. Set the required parameters:
5. Press **Save** to confirm.

10.4.3 Linking devices to zones

Procedure

1. Select the **Add** option: a list of zones in the system is displayed.
2. Select the required zone.
3. Select the **Device** option.
4. Select the required loop: all devices in the loop are displayed.
5. Select all devices to be linked to the zone.

6. Press **Back** to save the selection.

10.4.4 Set zone operating parameters

This function lets you set weekly zone behavior. This is helpful to bypass the unit on certain days or at certain times.

Settings

Settings are described below.

Parameter	Description
Zone name	Name assigned to the zone
Weekly trend Self-bypass	Weekly trend linked to the zone. (see *10.8.1 Setting weekly trends*).

Procedure

1. Select the **Add** option: a list of zones in the system is displayed.
2. Select the required zone.
3. Select the **Settings** option.
4. Enter the required settings.
5. Press **Save** to confirm.

10.4.5 Link an output module to a zone

This function lets you directly link output modules to a zone. When the zone turns on, the output modules automatically turn on.

Settings

Settings are described below.

Parameter	Description
Mute	If **Yes**, the operator can mute the output module (i.e.: siren) entering a password. If **No**, the unit must be reset to mute the alarm.

Procedures

To add a zone:

1. Select the **Add** option: a list of zones in the system is displayed.
2. Select the required zone.
3. Select the **Output Modules** option.
4. Select the output module loop.
5. Select the required module.
6. Set the required parameters:
7. Press **Save** to confirm.

To edit a zone:

1. Select the **Edit** option: a list of zones in the system is displayed.
2. Select the zone to be edited.
3. To edit linked events see *10.4.1 Link an event to a zone* for parameter descriptions.
4. To edit linked loops: see *10.4.2 Linking loops to zones* for parameter descriptions.
5. To edit linked devices see *10.4.3 Linking devices to zones* for parameter descriptions.
6. To edit operating parameters: see *10.4.4 Set zone operating parameters* for parameter descriptions.
7. To edit output modules: see *10.4.5 Link an output module to a zone* for parameter descriptions.

To delete a zone:

1. Select the **Delete** option: a list of zones in the system is displayed.

2. Select the zone to be deleted
3. To delete a single zone, press the zone twice.
4. To delete several consecutive zones, press the first and last zone in the interval.
5. Press **Save** to delete the zone.

10.5 Setting output zones

The following functions are reserved to the Programmer.

Programming menu -> Settings -> Devices/Zones -> Output Zones

This function lets you link output modules to output zones.

Settings

Settings are described below.

Parameter	Description
Activations	Event type that activates the zone (Alarm, Gas pre-alarm)
Alarm relay	The zone activates the general unit alarm.
Mutable	The zone can be muted by the operator by entering the password.

Procedures

To create an output zone:

1. Select the **Add** option: a list of output zones in the system is displayed.
2. Select the first available output zone.
3. Set the required parameters:
4. Press **Next** to continue.
5. Select the loop that includes the output module to be linked.
6. Select the output module to be linked to the output zone.
7. Press **Save** to confirm.

To edit an output zone:

1. Select the **Edit** option: a list of output zones in the system is displayed.
2. Select the output zone to be edited.
3. Edit settings.
4. for parameter descriptions.
5. Press **Save** to confirm.

To delete an output zone:

1. Select the **Delete** option: a list of output zones in the system is displayed.
2. Select the output zone to be deleted
3. Press **Save** to delete the output zone.

10.6 Setting logic functions

The following functions are reserved to the Programmer.

Programming menu -> Settings -> Devices/Zones -> Logic functions

Logic functions are cause and effect relations between events that occur in the unit. Logic functions can put the following into relation:

- sensors
- modules
- zones
- events
- logic functions

For example, you can create a logic function in which the activation of a series of zones (inputs) activates specific outputs.

Logic operators

It is possible to link various inputs by using these logic operators:

- AND
- OR
- NOT
- XOR

Example of how to use logic operators

For each operator, below you can find an example of how they work. In these examples only two inputs elements where considered.

AND

A	B	Y
0	0	0
0	1	0
1	0	0
1	1	1

OR

A	B	Y
0	0	0
0	1	1
1	0	1
1	1	1

NOT

A	Y
0	1
1	0

XOR

A	B	Y
0	0	0
0	1	1
1	0	1
1	1	0

Settings

Settings are described below.

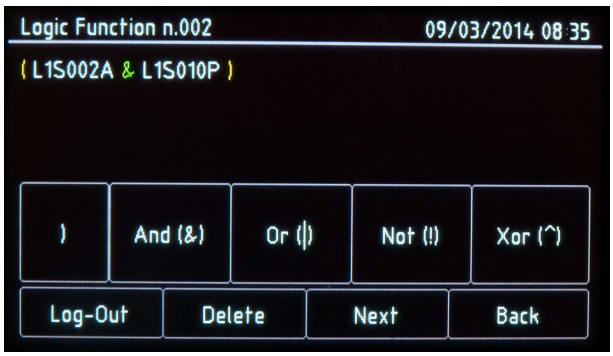
Parameter	Description
sensore	Member loop and address
moduleo	Member loop and address
Zone	Zone number
Event	Select the event type. • Fault • Silence • Offline • Weekly trend
Logic function	Number of another logic function that activates this one.
Delay	Wait time, in seconds, between logic function and output activation.
Length	Output activation time, in seconds. If set to 0000, outputs remain active until reset by the operator.
Linked Output Zones	Outputs activated by logic functions. These outputs must already be programmed (see *10.5 Setting output zones*).

Procedures

To create a logic function:

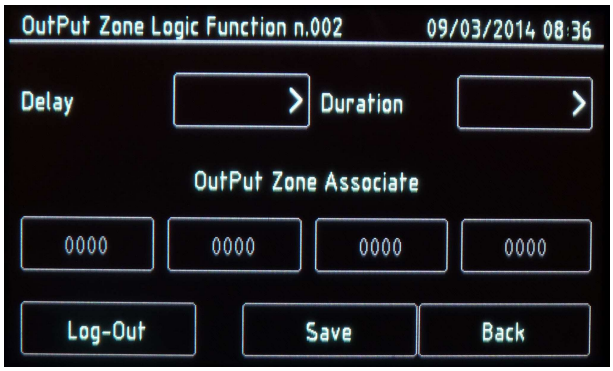
1. Select the **Add** option: a list of available logic functions is displayed.
2. Select the first available logic function: the page where the logic function can be built appears.

3. Press the input that will activate the logic function. The windows required to identify the device, event or logic function appear according to the selected input.
4. For devices only, select the input status that will activate the function.
5. Build the logic relations between the events.



In the example, the logic function will be activated when sensor 001 in loop 1 triggers an alarm and sensor 009 in loop 1 is in pre-alarm.

6. Press **Next** to move to the next window.



7. Set the required parameters:
8. Press **Save** to confirm.

To edit a logic function:

1. Select the **Edit** option: a list of available logic functions is displayed.
2. Select the logic function to be edited.
3. Edit settings.
4. Press **Save** to confirm.

To delete a logic function:

1. Select the **Delete** option: a list of available logic functions is displayed.
2. Select the logic function to be deleted
3. Press **Save** to delete the logic function.

10.7 Setting system parameters

The following functions are reserved to the Programmer.

10.7.1 Setting the language

Programming menu -> Settings -> System -> General ->

Select the required language: the selected language is immediately applied.

10.7.2 Entering information on the unit

Programming menu -> Settings -> System -> General -> Panel information

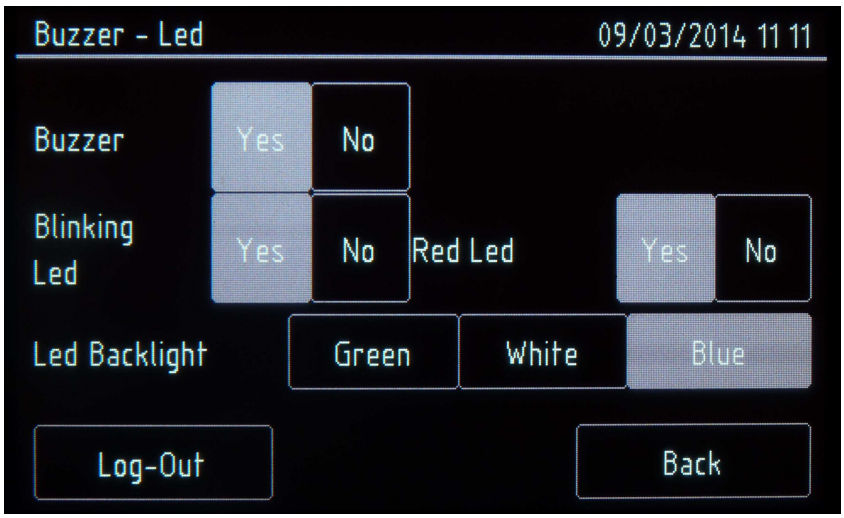
Settings

Settings are described below.

Parameter	Description
Unit name	Name assigned to the unit
Service center	Service center contact data
Background	Control panel background color (black, blue, green)

10.7.3 Setting led and buzzer behavior

Programming menu -> Settings -> System -> General -> Buzzer-led



Settings

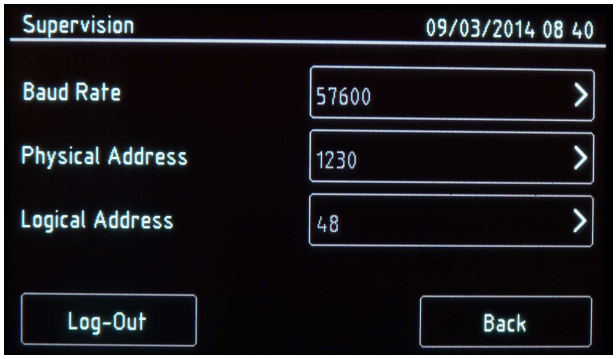
Settings are described below.

Parameter	Description
Buzzer	Enables the unit buzzer. The buzzer sounds in the event of fault or alarm.
Blinking led	Activates the blinking led function on devices installed on the loop. The led blink when queried by the unit.
Red led	Sets the device led blink color to red. The led blink when queried by the unit. Tip: activate in systems with sensors without built-in insulator, SFxxxxE series..
Back light Led	Sets the panel back light color (green, white, blue).

10.7.4 Setting remote communications

Programming menu -> Settings -> System -> General -> Supervision

This function lets you set parameters for communications with the unit via LAN or RS-232. This way the unit can be remotely monitored or programmed.



Settings

Settings are described below.

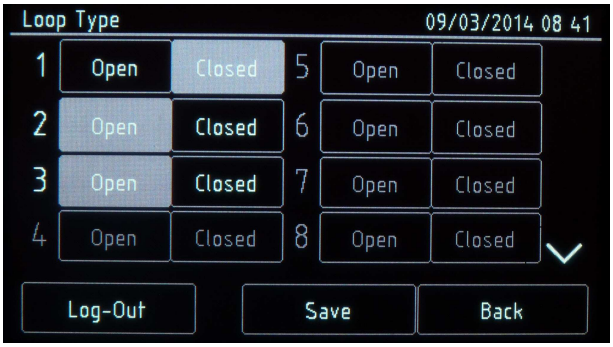
Parameter	Description
Baud Rate	Select one of the available options (9600, 19200, 38400, 57600). Select the highest value for faster connections. If a PT-LAN network card is installed, set the same parameter for the network card.
Physical address	Physical supervisor address
Logic address	Logic supervisor address

Warning: make sure the same values are set on the supervisor.

10.7.5 Setting loop features

Programming menu -> Settings -> System -> General -> Loop type

This function lets you specify whether the loop is closed or open for each loop in the system.



Procedure

1. Set the type of each loop.
2. To view or set up the 9th loop, press the down arrow.
3. Press **Save** to confirm.

10.7.6 Restoring factory settings

Programming menu -> Settings -> System -> Factory default

This function lets you restore factory settings.

Warning: once this procedure is launched it cannot be interrupted, all setting changes will be deleted.

10.7.7 Setting peripheral features

Programming menu -> Settings -> System -> Peripherals

Function currently unavailable.

This function lets you set the number of peripherals in the system and connected via the RS-485 port.

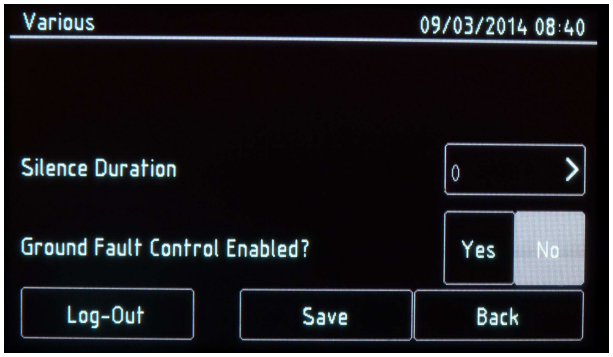
10.7.8 Importing and exporting settings

Programming menu -> Settings -> System -> USB

This function lets you set and export unit settings to a USB key.

10.7.9 Various system settings

Programming menu -> Settings -> System -> General -> Miscellaneous



Settings

Settings are described below.

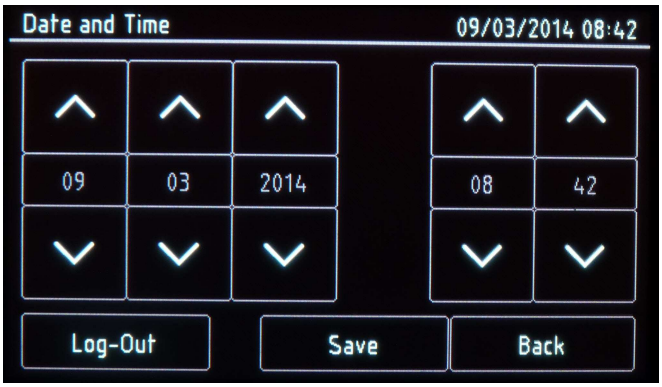
Parameter	Description
Mute time	Buzzer mute time in the event of persistent alarm. The buzzer restarts after this time if the alarm is not reset.
Ground Fault Control On	Runs the ground fault test to check for mains power ground dispersions and loop signal grounding. Tip: activate this option to debug installation errors, especially short circuits between grounding and unit signals (such as, for example, a contact between cable shield and conductor).

10.8 Setting the calendar.

The following functions are reserved to the Programmer.

10.8.1 Setting the date and time

Programming menu -> Settings -> Clock -> Date and Time

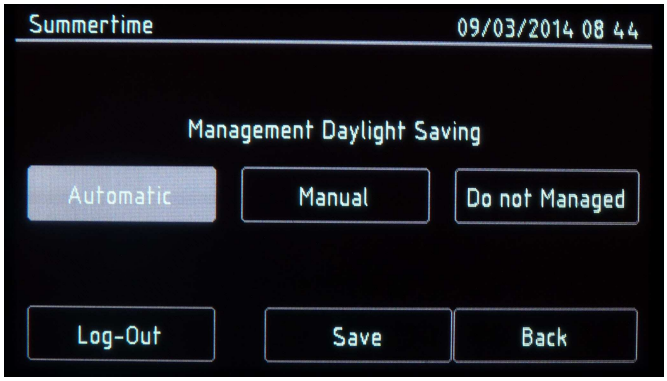


Procedure

1. Set the current date and time.
2. Press **Save** to confirm.

10.8.2 Setting daylight savings time

Programming menu -> Settings -> Clock -> Daylight Savings Time



Settings

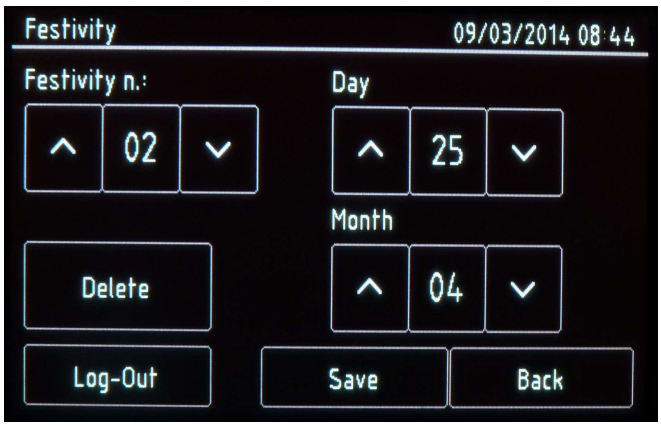
Settings are described below.

Parameter	Description
Automatic	The unit automatically switches to daylight savings time.
Manual	Manually set the month and day daylight savings time starts and ends.
Not managed	Function not enabled, no daylight savings time period is calculated.

10.8.1 Setting holidays

Programming menu -> Settings -> Clock -> Holidays

This function lets you program holidays and link them to weekly trends.



Settings

Settings are described below.

Parameter	Description
Holiday no.	Holiday ID (1-12)

Parameter	Description
Day	Holiday day
Month	Holiday month

10.8.1 Setting time intervals

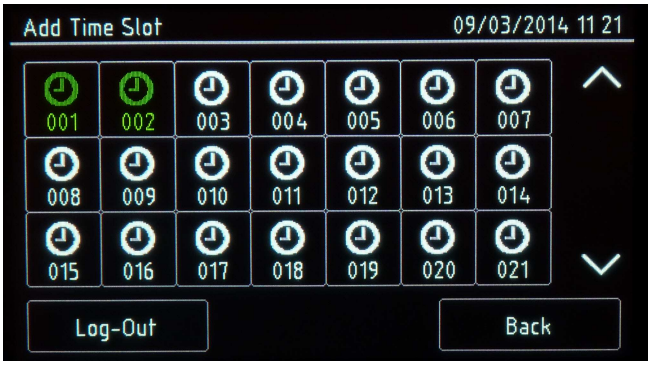
Programming menu -> Settings -> Clock -> Time Intervals ->

This function lets you set up to 255 daily time intervals.

Procedures

To create a new time interval:

1. Select the **Add** option: the list of time intervals is displayed.



2. Select a time interval not set.

3. Set the start date and time **[1]** and end date and time **[2]** for the time interval.
4. Press **Save** to confirm.

To edit an existent time interval:

1. Select the **Edit** option: the list of time intervals is displayed.
2. Select the time interval to be edited.
3. Change the start and end times.
4. Press **Save** to confirm.

To delete an existent time interval:

1. Select the **Delete** option: the list of time intervals is displayed.

2. Select the time interval to be deleted.
3. Press **Save** to confirm.

10.8.1 Setting weekly trends

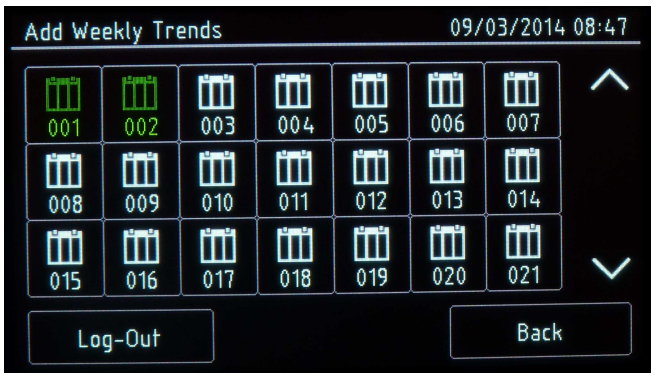
Programming menu -> Settings -> Clock -> Weekly trends

This function lets you link previously created time intervals to days of the week.

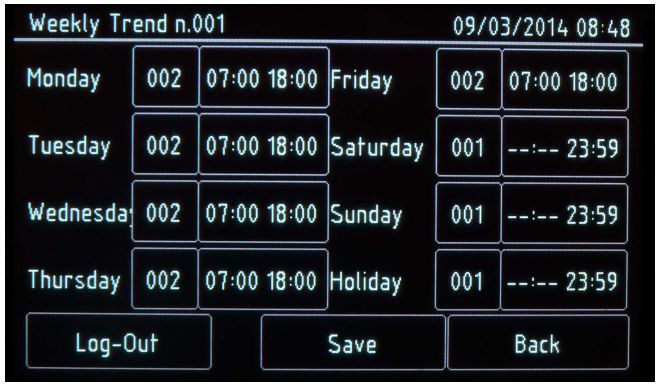
Procedures

To create a new weekly trend proceed as following:

1. Select the **Add** option: the list of weekly trends is displayed.



2. Select a weekly trend not set.
3. Select the time interval to be linked for each day of the week. See *10.8.1 Setting time intervals* on how to create time intervals.



4. Press **Save** to confirm.

To edit an existent weekly trend:

1. Select the **Edit** option: the list of weekly trends is displayed.
2. Select the weekly trend to be edited.
3. Edit the time intervals linked to the days.
4. Press **Save** to confirm.

To delete an existent weekly trend:

1. Select the **Delete** option: the list of weekly trends is displayed.

2. Select the weekly trend to be deleted.
3. Press **Save** to confirm.

11. Use

11.1 Viewing events

The following functions are accessible to both the User and Programmer.

Event Log Menu

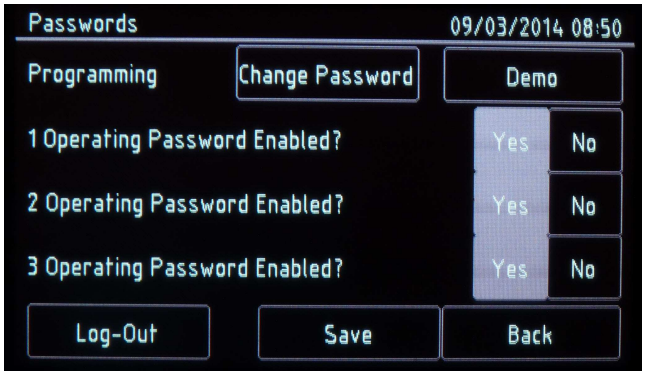
The **Event Log** menu lets you view events logged by category. See *9.1.1 Viewing events* for a description of the displayed information.

11.2 Enabling users and changing login codes

Only the Programmer operator can enable or disable user operator login. Each operator can change his/her login code.

11.2.1 Programmer

Programming menu -> Settings -> Password



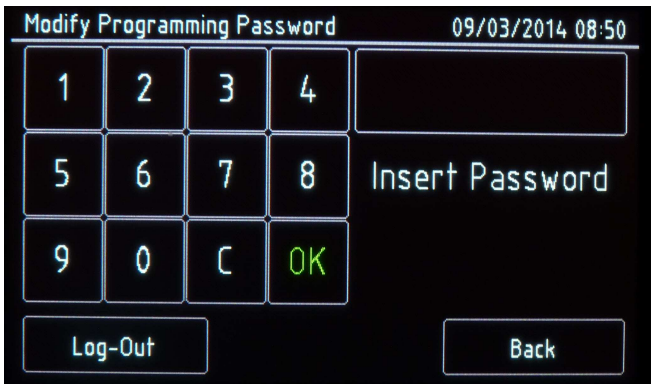
Procedures

To enable User login:

1. Set all Users who need to login to the unit to **Yes**.
2. Press **Save** to confirm.

To change the Programmer login code:

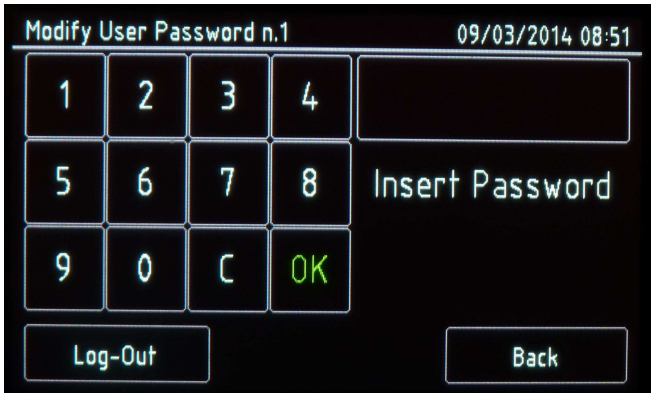
1. Select the **Change** option: the code change page is displayed.



2. Enter the new code twice: this new code must be entered at the next login.

11.2.2 User

User menu -> Change Code



Procedure

Enter the new code twice: this new code must be entered at the next login.

11.3 Managing alarms

The following functions are reserved to the User

11.3.1 Mute alarms and the unit

User menu -> Mute

Note: once this key is pressed, it is transformed into **Siren Reset**.

This function lets you temporarily mute system and panel alarms to check if a fire has actually broken out and reset them if necessary.

Procedures

In the event of false alarm:

Reset the panel (see *11.3.2 Reset alarms and the unit*).

In the event of real alarm:

Press the **Siren Reset** key to turn sirens back on.

11.3.2 Reset alarms and the unit

User menu ->Reset

This function resets triggered alarms and the unit.

11.4 Check device status

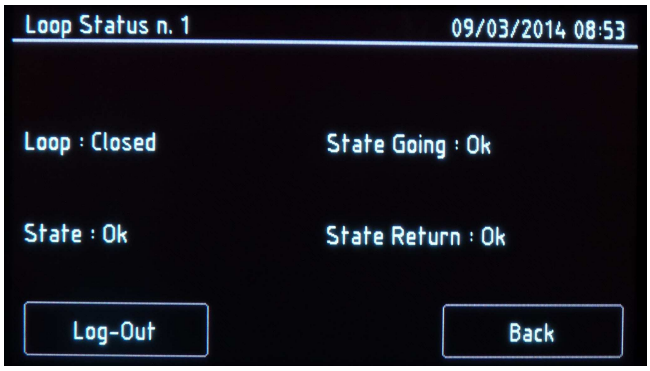
The following functions are accessible to both the User and Programmer.

11.4.1 Check loop status

Maintenance -> Loop -> Status

Procedure

Select the required loop: loop type and status are displayed.



11.4.2 Resetting a loop

Maintenance -> Loop -> Reset

Select the required loop: this is automatically reset.

11.4.3 Run device diagnostics

Maintenance -> Diagnostics

This function lets you check connected device cleanliness.

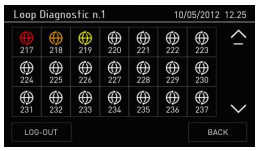
Sensor status

Sensor status is indicated by the following colors:

Color	Device conditions
	Clean detector
	Medium clean Detector
	Sensor almost dirty
	Dirty

Procedure

1. Select the required loop: all connected devices are displayed.



2. Press a single sensor to view details.

11.5 Testing devices

The following functions are accessible to both the User and Programmer.

11.5.1 Running a Walk Test

Maintenance -> Test -> Sensors/Modules -> Walk Test

Walk test is used to verify the devices alarm functionality manually.

Note: when devices are put in this mode, the system does not generate any alarm and does not run the relevant procedures.

Different types of tests can be run:

- **Single:** used to test only one device.
- **Multiple:** used to test a range of devices.
- **Zone**: to test devices in a specific zone.
- **Loop**: to test devices in a specific loop.

Test results

The results are indicated by a color for all tests.

Color	Device conditions
	Test successfully completed.
	Test failed.

Procedures

To run a single test:

1. Press the **Single** option.
2. Select the device loop and address.

To run a multiple test:

1. Press the **Multiple** option.
2. Select the loop.
3. Select the first device of the range.
4. Select the last device of the group

To run a zone test:

1. Press the **Zone** option.
2. Select the required zone.

To run a loop test:

1. Press the **Loop** option.
2. Select the desired loop.

11.5.2 Testing the connection with modules and sensors

Maintenance -> Test -> Sensors/Modules -> Sensors/Modules

Device connection

Connection status is indicated by a color for all devices.

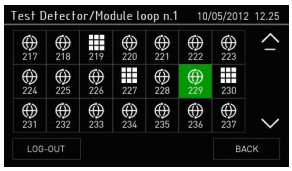
Color	Device conditions
	Device correctly connected.
	Device connection error

Procedures

To test the device connection:

1. Select the desired loop.

2. Select the device address: the connection with each loop device is displayed by a color. The example illustrates correct communications with loop 1 sensor 229.



11.5.3 Identifying conflicts

Maintenance -> Test -> Conflicts

This function lets you check whether two devices have the same address in the system.

1. Select the loop where conflicts are searched for: any conflicts are automatically displayed.
2. If several devices are displayed with the same address, change one.

11.5.4 Identifying inconsistencies

Maintenance -> Test -> Inconsistencies

This function lets you check whether device programming is consistent with unit settings (for example, whether a sensor was programmed as a module or vice versa).

1. Select the loop where consistencies are searched for: any inconsistencies are automatically displayed.
2. Correct any found inconsistencies.

11.5.5 Testing led operations

Maintenance -> Test -> Led

This function lets you check whether colors are correctly displayed.

11.6 Include/bypass system elements

The following functions are accessible to both the User and Programmer.

Maintenance -> Include/Bypass

Warning: bypassed devices do not send any alarm or fault signals. This compromises system safety. Only bypass a device with strictly necessary and re-include it as soon as possible.

This function lets you bypass and re-include one or more unit devices. This feature will ignore any information received by the excluded device.

THE following can be included/bypassed:

- devices
- loop
- zones
- output zones
- additional boards

Element conditions

Symbol	Element condition
	Bypassed element (sensor in the example)
	Included element (sensor in the example)

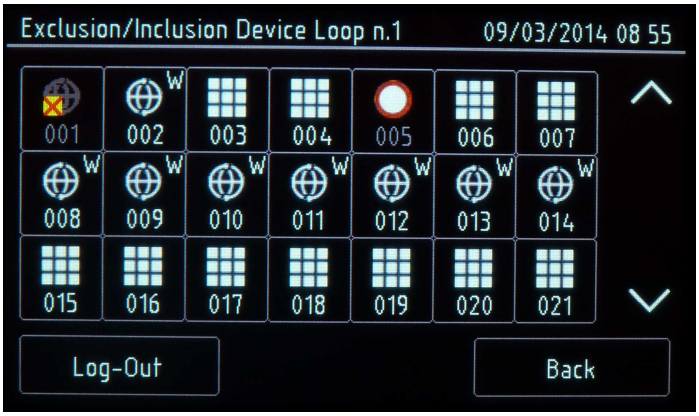
11.6.1 Including/Bypassing a device

Maintenance -> Include/Bypass -> Devices

Procedures

To bypass a sensor:

1. Select the loop that contains the device to be bypassed.
2. Select the device to be bypassed.
3. Press **Save** to confirm. Sensor 001 is bypassed in the example.



To include a previously bypassed sensor:

1. Select the loop that contains the device to be included.
2. Select the bypassed device to be included.
3. Press **Save** to confirm.

11.6.2 Including/bypassing a loop

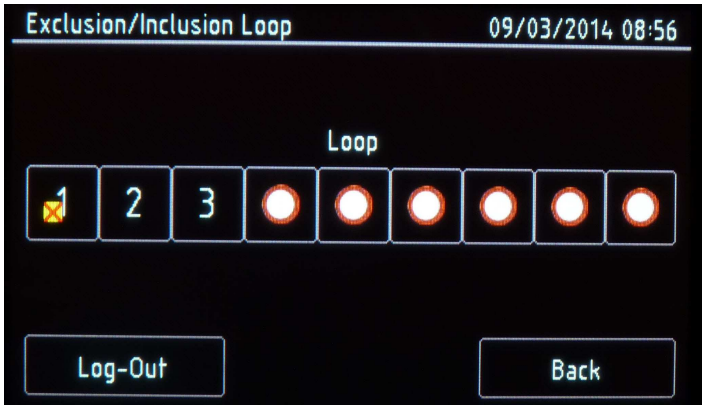
Maintenance -> Include/Bypass -> Loop

Warning: bypassing a loop automatically bypasses all devices connected to it.

Procedures

To bypass a loop:

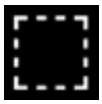
1. Select the loop to be bypassed.
2. Press **Save** to confirm. Loop 1 is bypassed in the example.



To include a previously bypassed loop:

1. Select the bypassed loop to be included.
2. Press **Save** to confirm.

11.6.3 Including/bypassing a zone

Maintenance -> Include/Bypass -> Zone 

Warning: bypassing a zone automatically bypasses all connected loops and relevant devices.

Procedures

To bypass a zone:

1. Select the zone to be bypassed:
2. Press **Save** to confirm.

To include a previously bypassed zone:

3. Select the bypassed zone to be included.
4. Press **Save** to confirm.

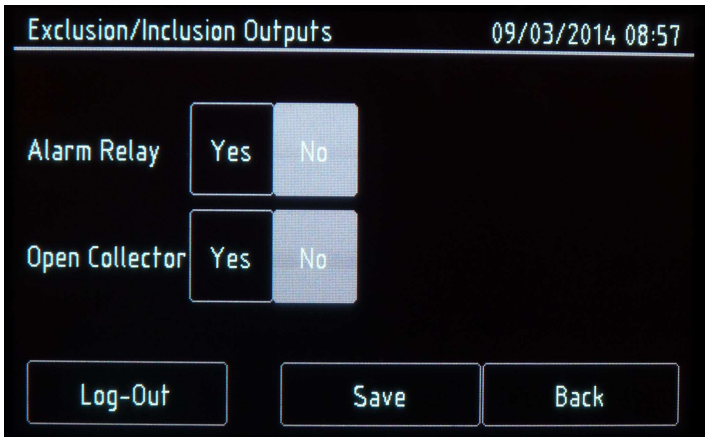
11.6.4 Including/bypassing an output

Maintenance -> Include/Bypass -> Outputs

Procedures

To bypass an output:

1. Select **Yes** for each output to be bypassed.



2. Press **Save** to confirm.

To include an output:

1. Select **No** for each output to be included.
2. Press **Save** to confirm.

11.6.5 Including/bypassing a board

Maintenance -> Include/Bypass -> Additional boards

Function currently unavailable.